

JAN

Access DB#

84785

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: FONDA Examiner #: 71970 Date: 1-21-03
Art Unit: 1623 Phone Number 30 _____ Serial Number: 09/964178
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

CM18B19 CM18A05

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): see attached assignment sheet

Earliest Priority Filing Date: 9-25-01

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search composition comprising
glucosamine and an analgesic
per cl 1-13, and method of
using it to alleviate pain per
cl 14-16.

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM11E07 - 703-308-4498
jan.delaval@uspto.gov

Thanks
K.

STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher: <u>[Signature]</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: <u>1-21-03</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>1/27/03</u>	Bibliographic <u>✓</u>	Dr. Link _____
Date Completed: <u>1/27/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>15</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>30</u>	Other _____	Other (specify) _____

7F3T AVAILABLE COPY

=> d his

(FILE 'HOME' ENTERED AT 10:34:45 ON 27 JAN 2003)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 10:34:56 ON 27 JAN 2003

L1 3 S 3416-24-8 OR 29031-19-4 OR 66-84-2
E .ALPHA.-GLUCOSAMINE/CN
L2 1 S E4
L3 1 S 6490-70-6
E .BETA.-GLUCOSAMINE/CN
L4 1 S E4
L5 1 S 14257-69-3
E N-ACETYL-D-GLUCOSAMINE/CN
L6 1 S E3
L7 297 S (7512-17-6 OR 3416-24-8 OR 6490-70-6 OR 14257-69-3)/CRN
L8 37 S L7 AND (7664-93-9/CRN OR CLH)
L9 8 S L8 AND 2/NC
L10 12 S L1-L6, L9
L11 1 S IBUPROFEN/CN
L12 1 S KETOPROFEN/CN
L13 18 S C13H18O2/MF AND 46.150.18/RID AND 1/NR AND BENZENEACETIC AND
L14 13 S L13 AND 2 METHYLPROPYL
L15 3 S L14 AND IBUPROFEN
L16 15 S L13 NOT L15
L17 12 S C16H14O3/MF AND 46.150.18/RID AND 2/NR AND BENZENEACETIC AND
L18 3 S L17 AND KETOPROFEN
L19 9 S L17 NOT L18
L20 6 S L11, L12, L15, L18
SEL RN
L21 426 S E1-E6/CRN
L22 2 S L21 AND L7

FILE 'HCAPLUS' ENTERED AT 10:44:09 ON 27 JAN 2003

L23 9874 S L10
L24 27519 S ?GLUCOSAMINE? OR ACETYLGLUCOSAMINE OR ACETYL (1W) GLUCOSAMINE
L25 29352 S L23, L24
L26 8313 S L20
L27 8906 S IBUPROFEN OR KETOPROFEN
L28 10023 S L26, L27
L29 4491 S NSAID
L30 11691 S (NONSTEROID? OR NON STEROID?) (L) ?INFLAM?
L31 49473 S ANALGES?
E ANALGESIC/CT
E E6+ALL
L32 27328 S E5
L33 54026 S E5+NT
E E22+ALL
L34 17760 S E5+NT
E ANTIINFLAM/CT
E E5+ALL
L35 19798 S E2
E E2+ALL
L36 24177 S E4, E5
L37 28056 S E3+NT
L38 36 S L25 AND L28
L39 329 S L25 AND L29-L37
L40 23 S L38 AND L39
L41 36 S L38, L40
E ANTIARTHRITIC/CT
E E4+ALL
L42 4488 S E5, E4+NT
E ANTIHISTAMIN/CT

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CMi 1E07 - 703-308-4498
jan.delaval@uspto.gov

L43 1153 S E5-E7
E E4+ALL
L44 6793 S E5,E4+NT
E MUSCLE RELAXANT/CT
L45 5669 S E4-E10
E E4+ALL
L46 8857 S E5,E6,E4+NT
E DECONGESTANT/CT
L47 431 S E4,E5
E E4+ALL
L48 431 S E4
E BRONCHODIAL/CT
L49 5474 S E7-E9
E E7+ALL
L50 9708 S E5,E4+NT
L51 66379 S ANTIARTHRIT? OR ANTIHISTAMIN? OR ANTI() (ARTHRIT? OR HISTAMIN?
L52 147 S L25 AND L42-L51
L53 120 S L52 AND L39
L54 13 S L52 AND L41
L55 13 S L40 AND L54
SEL DN AN 3 10 11
L56 3 S E1-E9
L57 131 S L41,L52,L53 AND L23
L58 26 S L57 AND L26
L59 23 S L58 NOT L56
L60 15 S L59 NOT L55
SEL DN AN 11
L61 1 S L60 AND E10-E12
L62 2 S L22
L63 6 S L56,L61,L62
E RAFFA R/AU
L64 177 S E4-E9
E COWAN A/AU
L65 236 S E3-E15,E17,E20,E21
E TALLARIDA R/AU
L66 103 S E4-E6
L67 1 S L64-L66 AND L25
L68 6 S L63,L67 AND L23-L67
SEL HIT RN

FILE 'REGISTRY' ENTERED AT 11:00:56 ON 27 JAN 2003

L69 11 S E1-E11
L70 10 S L69 NOT C16H25NO2
L71 1 S L69 NOT L70

=> fil reg

FILE 'REGISTRY' ENTERED AT 11:01:43 ON 27 JAN 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 24 JAN 2003 HIGHEST RN 481628-73-3

DICTIONARY FILE UPDATES: 24 JAN 2003 HIGHEST RN 481628-73-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

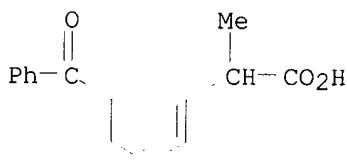
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d 170 ide can tot

L70 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 246858-10-6 REGISTRY
 CN D-Glucose, 2-amino-2-deoxy-, 3-benzoyl-.alpha.-methylbenzeneacetate (salt) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl-, compd. with 2-amino-2-deoxy-D-glucose (1:1) (9CI)
 FS STEREOSEARCH
 MF C16 H14 O3 . C6 H13 N O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

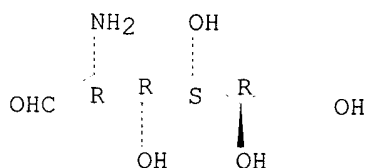
CRN 22071-15-4
 CMF C16 H14 O3



CM 2

CRN 3416-24-8
 CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).



1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 131:291311

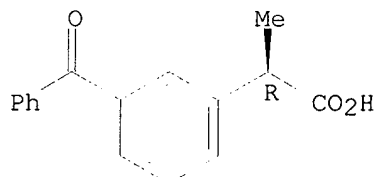
L70 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN 237742-82-4 REGISTRY
 CN D-Glucose, 2-amino-2-deoxy-, (.alpha.R)-3-benzoyl-.alpha.-methylbenzeneacetate (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl-, (.alpha.R)-, compd. with 2-amino-2-deoxy-D-glucose (1:1) (9CI)
 FS STEREOSEARCH

MF C16 H14 O3 . C6 H13 N O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 56105-81-8
 CMF C16 H14 O3

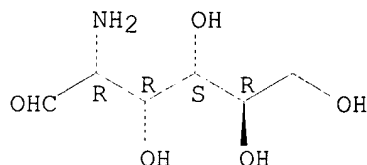
Absolute stereochemistry. Rotation (-).



CM 2

CRN 3416-24-8
 CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).

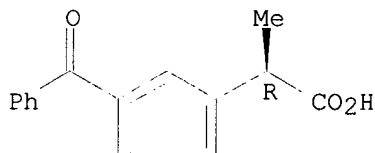


1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 131:161659

L70 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2003 ACS
 RN **56105-81-8** REGISTRY
 CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl-, (.alpha.R)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl-, (R)-
 OTHER NAMES:
 CN (-)-2-(3-Benzoylphenyl)propionic acid
 CN (-)-3-Benzoyl-.alpha.-methylbenzeneacetic acid
 CN (-)-Ketoprofen
 CN (2R)-2-(3-Benzoylphenyl)propionic acid
 CN (R)-(-)-Ketoprofen
 CN (R)-2-(3-Benzoylphenyl)propionic acid
 CN (R)-3-Benzoyl-.alpha.-methylphenylacetic acid
 CN (R)-Ketoprofen
 FS STEREOSEARCH
 MF C16 H14 O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CEN, CHEMINFORMRX, CIN, DRUGNL, DRUGPAT, DRUGUPDATES, IPA, PHAR, PROMT, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

307 REFERENCES IN FILE CA (1962 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
309 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:11225
REFERENCE 2: 137:375140
REFERENCE 3: 137:261988
REFERENCE 4: 137:257005
REFERENCE 5: 137:241443
REFERENCE 6: 137:169291
REFERENCE 7: 137:162942
REFERENCE 8: 137:124232
REFERENCE 9: 137:83751
REFERENCE 10: 137:68303

L70 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 51146-56-6 REGISTRY

CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)-, (.alpha.S)- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

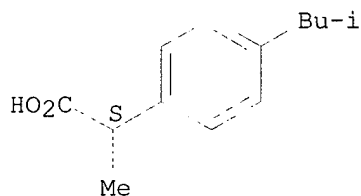
CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)-, (S)-

OTHER NAMES:

CN (+)-(S)-Ibuprofen
CN (+)-(S)-p-Isobutylhydratropic acid
CN (+)-.alpha.-Methyl-4-(2-methylpropyl)benzeneacetic acid
CN (+)-Ibuprofen
CN (+)-Ibuprophen
CN (S)-(+)-2-(4-Isobutylphenyl)propionic acid
CN (S)-(+)-4-Isobutyl-.alpha.-methylphenylacetic acid
CN (S)-(+)-Ibuprofen
CN (S)-2-(4-Isobutylphenyl)propanoic acid
CN (S)-2-(4-Isobutylphenyl)propionic acid
CN (S)-2-(p-Isobutylphenyl)propionic acid
CN (S)-Ibuprofen
CN d-Ibuprofen
CN Dexibuprofen
CN Seractil

FS STEREOSEARCH
MF C13 H18 O2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DRUGPAT, EMBASE, IPA,
MEDLINE, PHAR, PROMT, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

762 REFERENCES IN FILE CA (1962 TO DATE)
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
762 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:65749
REFERENCE 2: 138:16628
REFERENCE 3: 138:16626
REFERENCE 4: 138:16625
REFERENCE 5: 138:8366
REFERENCE 6: 137:369829
REFERENCE 7: 137:369804
REFERENCE 8: 137:369721
REFERENCE 9: 137:359575
REFERENCE 10: 137:299925

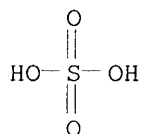
L70 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 29031-19-4 REGISTRY
CN D-Glucose, 2-amino-2-deoxy-, sulfate (salt) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN D-Glucosamine sulfate
CN DONA
CN Glucosamine sulfate
FS STEREOSEARCH
DR 216447-61-9
MF C6 H13 N O5 . x H2 O4 S
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, DIOGENES,
EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, PHAR, PROMT,
TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 7664-93-9

CMF H2 O4 S

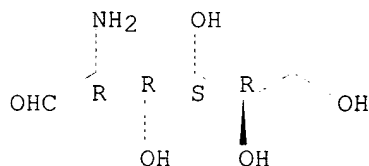


CM 2

CRN 3416-24-8

CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).



123 REFERENCES IN FILE CA (1962 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 125 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:32807
 REFERENCE 2: 138:8364
 REFERENCE 3: 137:358197
 REFERENCE 4: 137:345779
 REFERENCE 5: 137:329479
 REFERENCE 6: 137:268432
 REFERENCE 7: 137:241878
 REFERENCE 8: 137:222118
 REFERENCE 9: 137:222055
 REFERENCE 10: 137:210995

L70 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 22071-15-4 REGISTRY

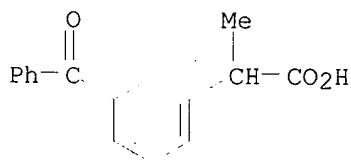
CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Hydratropic acid, m-benzoyl- (8CI)

OTHER NAMES:

CN (.+-.)-2-(3-Benzoylphenyl)propionic acid
 CN (.+-.)-3-Benzoyl-.alpha.-methylbenzeneacetic acid
 CN (.+-.)-Ketoprofen
 CN (.+-.)-m-Benzoylhydratropic acid
 CN (RS)-Ketoprofen
 CN .alpha.-(3-Benzoylphenyl)propionic acid
 CN 19583RP
 CN 2-(3-Benzoylphenyl)propionic acid
 CN 2-(m-Benzoylphenyl)propionic acid
 CN 3-Benzoyl-.alpha.-methylbenzeneacetic acid
 CN 3-Benzoylhydratropic acid
 CN Alrheumun
 CN Aneol
 CN Bi-profenid
 CN Capisten
 CN Epatec
 CN Ketoprofen
 CN Ketoprofene
 CN Ketoprophen
 CN Ketorin
 CN m-Benzoylhydratropic acid
 CN Orudis
 CN Oruvail
 CN Profenid
 CN R.P. 19583
 CN Racemic ketoprofen
 CN RU 4733
 FS 3D CONCORD
 DR 172964-50-0, 22161-86-0
 MF C16 H14 O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSChem, CSNB, DDFU, DETHERM*, DIOGENES,
 DRUGPAT, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE, MRCK*,
 MSDS-OHS, NIOSHTIC, PHAR, PHARMASEARCH, PROMT, RTECS*, SPECINFO,
 SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2897 REFERENCES IN FILE CA (1962 TO DATE)
 90 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2906 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:61373

REFERENCE 2: 138:61369

REFERENCE 3: 138:60879

REFERENCE 4: 138:49359
REFERENCE 5: 138:44736
REFERENCE 6: 138:37373
REFERENCE 7: 138:33289
REFERENCE 8: 138:32500
REFERENCE 9: 138:16628
REFERENCE 10: 138:16626

L70 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 15687-27-1 REGISTRY

CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (.+-.)-.alpha.-Methyl-4-(2-methylpropyl)benzeneacetic acid
CN (.+-.)-2-(p-Isobutylphenyl)propionic acid
CN (.+-.)-Ibuprofen
CN (.+-.)-Ibuprophen
CN (4-Isobutylphenyl)-.alpha.-methylacetic acid
CN (RS)-Ibuprofen
CN (S)-4-Isobutyl-.alpha.-methylphenylacetic acid
CN .alpha.-(4-Isobutylphenyl)propionic acid
CN .alpha.-Methyl-4-(2-methylpropyl)benzeneacetic acid
CN 2-(4'-Isobutylphenyl)propionic acid
CN 2-(4-Isobutylphenyl)propanoic acid
CN 2-(p-Isobutylphenyl)propionic acid
CN 4-Isobutyl-.alpha.-methylphenylacetic acid
CN 4-Isobutylhydratropic acid
CN Act 3
CN Adex 200
CN Advil
CN Alaxan
CN Algofen
CN Am-Fam 400
CN Anafen
CN Anco
CN Andran
CN Anflagen
CN Antarene
CN Antiflam
CN Apo-Ibuprofen
CN Apsifen
CN Artofen
CN Artril
CN Atril 300
CN Balkaprofen
CN Betaprofen
CN Bloom
CN Bluton
CN Brofen
CN Brufanic
CN Brufen
CN Brufen 400
CN Brufen Retard
CN Bruflam
CN Brufort
CN Buburone
CN Burana

CN Butacortelone
CN Carol
CN Cobo
CN Codral Period Pain
CN Combiflam
CN Dibufen

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

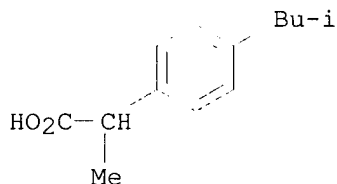
FS 3D CONCORD
DR 58560-75-1, 139466-08-3
MF C13 H18 O2
CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT,
CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU,
DIOGENES, DIPPR*, DRUGPAT, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB,
IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHAR, PHARMASEARCH, PIRA,
PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2,
USPATFULL, VETU

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

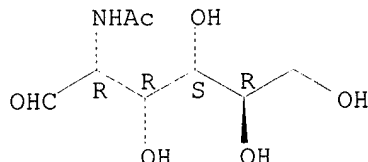
5852 REFERENCES IN FILE CA (1962 TO DATE)
174 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5866 REFERENCES IN FILE CAPLUS (1962 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:65749
REFERENCE 2: 138:61373
REFERENCE 3: 138:61369
REFERENCE 4: 138:61365
REFERENCE 5: 138:61315
REFERENCE 6: 138:61149
REFERENCE 7: 138:60879
REFERENCE 8: 138:55713
REFERENCE 9: 138:44736
REFERENCE 10: 138:44722

L70 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 7512-17-6 REGISTRY

CN D-Glucose, 2-(acetylamino)-2-deoxy- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN D-Glucose, 2-acetamido-2-deoxy- (8CI)
 OTHER NAMES:
 CN 2-Acetamido-2-deoxy-D-glucose
 CN 2-Acetamido-2-deoxyglucose
 CN 2-Acetamido-D-glucose
 CN 2-Acetylamino-2-deoxy-D-glucose
 CN Acetylglucosamine
 CN D-N-Acetylglucosamine
 CN Marine Sweet
 CN N-Acetyl-2-amino-2-deoxy-D-glucose
 CN N-Acetyl-2-amino-2-deoxyglucose
 CN N-Acetyl-D-glucosamine
 CN N-Acetylglucosamine
 FS STEREOSEARCH
 DR 7132-76-5, 134-61-2, 173382-53-1, 98632-70-3
 MF C8 H15 N O6
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,
 CHEMLIST, CIN, CSCHM, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
 MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT, SPECINFO, TOXCENTER, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4975 REFERENCES IN FILE CA (1962 TO DATE)
 372 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 4980 REFERENCES IN FILE CAPLUS (1962 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:61045
 REFERENCE 2: 138:51620
 REFERENCE 3: 138:51537
 REFERENCE 4: 138:44821
 REFERENCE 5: 138:37402
 REFERENCE 6: 138:36689
 REFERENCE 7: 138:34830
 REFERENCE 8: 138:23767
 REFERENCE 9: 138:21926

REFERENCE 10: 138:21284

L70 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 3416-24-8 REGISTRY

CN D-Glucose, 2-amino-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Amino-2-deoxy-D-glucopyranose

CN 2-Amino-2-deoxy-D-glucose

CN 2-Amino-2-deoxyglucose

CN 2-Deoxy-2-amino-D-glucose

CN 2-Deoxy-2-aminoglucose

CN Chitosamine

CN D-Glucosamine

CN Glucosamine

FS STEREOSEARCH

DR 58-87-7, 58267-75-7, 2351-15-7

MF C6 H13 N O5

CI COM

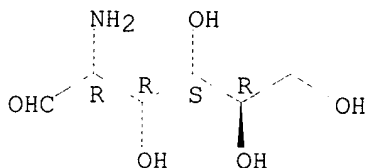
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
 CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES,
 DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
 MSDS-OHS, NAPRALERT, NIOSHTIC, PHARMASEARCH, PIRA, PROMT, RTECS*,
 SYNTHLINE, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4730 REFERENCES IN FILE CA (1962 TO DATE)

312 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

4733 REFERENCES IN FILE CAPLUS (1962 TO DATE)

6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:61295

REFERENCE 2: 138:61290

REFERENCE 3: 138:52546

REFERENCE 4: 138:49392

REFERENCE 5: 138:44821

REFERENCE 6: 138:44738

REFERENCE 7: 138:44521

REFERENCE 8: 138:44100

REFERENCE 9: 138:37189

REFERENCE 10: 138:35679

L70 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 66-84-2 REGISTRY

CN D-Glucose, 2-amino-2-deoxy-, hydrochloride (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Amino-2-deoxy-D-glucose hydrochloride

CN 2-Deoxy-2-amino-D-glucose hydrochloride

CN Chitosamine hydrochloride

CN Cosamin

CN D-(+)-Glucosamine hydrochloride

CN D-Glucosamine chloride

CN D-Glucosamine hydrochloride

CN Glucosamine hydrochloride

FS STEREOSEARCH

DR 2002-25-7, 3615-52-9, 66573-21-5, 151799-45-0, 34673-29-5, 214046-22-7

MF C6 H13 N O5 . Cl H

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
 CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB,
 IFIPAT, IFIUDB, IPA, PIRA, PROMT, RTECS*, TOXCENTER, ULIDAT, USPAT2,
 USPATFULL

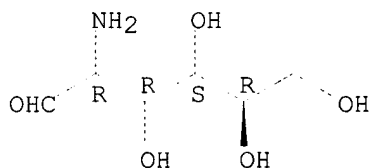
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

CRN (3416-24-8)

Absolute stereochemistry. Rotation (+).



● HCl

769 REFERENCES IN FILE CA (1962 TO DATE)

17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

772 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:61045

REFERENCE 2: 138:51537

REFERENCE 3: 138:49392

REFERENCE 4: 138:39499

REFERENCE 5: 138:14820

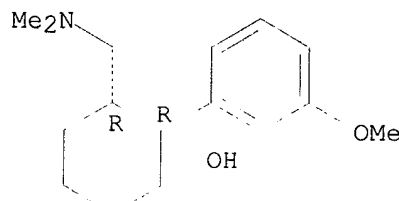
REFERENCE 6: 138:11371

REFERENCE 7: 138:8378
REFERENCE 8: 138:8364
REFERENCE 9: 138:4803
REFERENCE 10: 137:386237

=> d 171 ide can

L71 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 27203-92-5 REGISTRY
CN Cyclohexanol, 2-[(dimethylamino)methyl]-1-(3-methoxyphenyl)-, (1R,2R)-rel-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cyclohexanol, 2-[(dimethylamino)methyl]-1-(3-methoxyphenyl)-, cis-(+.-.)-
CN Cyclohexanol, 2-[(dimethylamino)methyl]-1-(m-methoxyphenyl)- (8CI)
OTHER NAMES:
CN (.+.-.)-Tramadol
CN cis-Tramadol
CN Racemic tramadol
CN Tramadol
FS STEREOSEARCH
DR 113683-92-4, 73806-46-9
MF C16 H25 N O2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB,
CEN, CHEMCATS, CHEMLIST, CIN, DDFU, DIOGENES, DRUGU, EMBASE, IPA,
MEDLINE, MRCK*, PHAR, PHARMASEARCH, PROMT, RTECS*, SYNTHLINE, TOXCENTER,
USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

532 REFERENCES IN FILE CA (1962 TO DATE)
18 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
537 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:61448
REFERENCE 2: 138:49342
REFERENCE 3: 138:33355

REFERENCE 4: 138:33351
 REFERENCE 5: 138:32766
 REFERENCE 6: 138:19392
 REFERENCE 7: 137:389167
 REFERENCE 8: 137:375269
 REFERENCE 9: 137:363089
 REFERENCE 10: 137:363086

=> fil hcaplus

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FILE COVERS 1907 - 27 Jan 2003 VOL 138 ISS 5
 FILE LAST UPDATED: 26 Jan 2003 (20030126/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d l68 all hitstr tot

L68 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:256052 HCAPLUS
 DN 136:284456
 TI Analgesic and glucosamine compositions
 IN Raffa, Robert; Cowan, Alan; Tallarida, Ronald
 PA Temple University of the Commonwealth System of Higher Education, USA
 SO PCT Int. Appl., 24 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K031-70
 CC 63-6 (Pharmaceuticals)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002026239	A1	20020404	WO 2001-US29606	20010921
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,				
	PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,				
	UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001092929 A5 20020408 AU 2001-92929 20010921
 US 2002058642 A1 20020516 US 2001-964178 20010925
 PRAI US 2000-235405P P 20000926
 WO 2001-US29606 W 20010921

AB This invention relates to a compn. a **glucosamine** material and an **analgesic** compd. such as a **nonsteroidal anti-inflammatory** drug (NSAID) and/or an opioid **analgesic** and its use for treatment of pain in pharmaceutical or veterinary applications. When the components are administered within certain ratios, the **analgesic** efficacy of the compn. is super-additive (synergistic) relative to the **analgesic** efficacy of the **analgesic** compd. alone. Solns. of **glucosamine** with **ibuprofen** or **ketoprofen** were given.

ST **analgesic NSAID glucosamine** compn

IT **Analgesics**

Antiarthritics

Antihistamines

Bronchodilators

Decongestants

Muscle relaxants

(**analgesic** and **glucosamine** compns.)

IT **Anti-inflammatory agents**

(**nonsteroidal; analgesic** and **glucosamine** compns.)

IT Drug interactions

(**synergistic; analgesic** and **glucosamine** compns.)

IT 66-84-2, **Glucosamine** hydrochloride 103-90-2, Acetaminophen 3416-24-8, **Glucosamine** 7512-17-6, N-Acetylglucosamine 15307-86-5, Diclofenac 15687-27-1, **Ibuprofen** 22071-15-4, **Ketoprofen** 27203-92-5, Tramadol 29031-19-4, **Glucosamine** sulfate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (**analgesic** and **glucosamine** compns.)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Armitage; US 4501727 A 1985 HCAPLUS

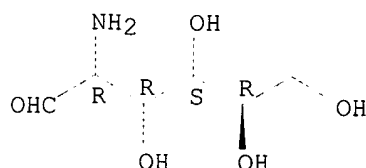
IT 66-84-2, **Glucosamine** hydrochloride 3416-24-8, **Glucosamine** 7512-17-6, N-Acetylglucosamine 15687-27-1, **Ibuprofen** 22071-15-4, **Ketoprofen** 27203-92-5, Tramadol 29031-19-4, **Glucosamine** sulfate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (**analgesic** and **glucosamine** compns.)

RN 66-84-2 HCAPLUS

CN D-Glucose, 2-amino-2-deoxy-, hydrochloride (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

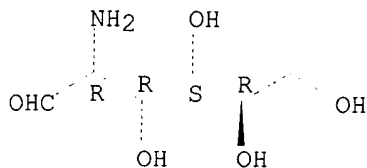


● HCl

RN 3416-24-8 HCAPLUS

CN D-Glucose, 2-amino-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

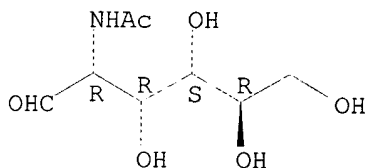
Absolute stereochemistry. Rotation (+).



RN 7512-17-6 HCAPLUS

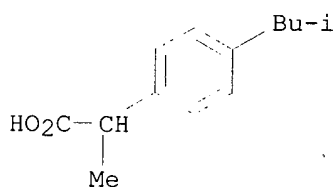
CN D-Glucose, 2-(acetylamino)-2-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



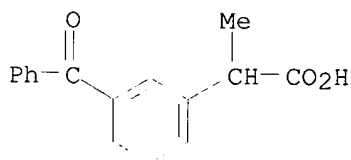
RN 15687-27-1 HCAPLUS

CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 22071-15-4 HCAPLUS

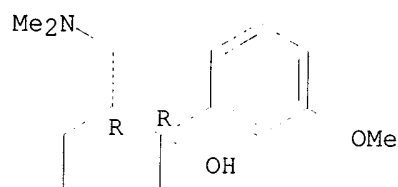
CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl- (9CI) (CA INDEX NAME)



RN 27203-92-5 HCAPLUS

CN Cyclohexanol, 2-[(dimethylamino)methyl]-1-(3-methoxyphenyl)-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

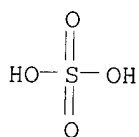
Relative stereochemistry.



RN 29031-19-4 HCAPLUS
 CN D-Glucose, 2-amino-2-deoxy-, sulfate (salt) (8CI, 9CI) (CA INDEX NAME)

CM 1

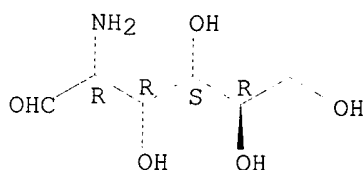
CRN 7664-93-9
 CMF H2 O4 S



CM 2

CRN 3416-24-8
 CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).



L68 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS
 AN 1999:672575 HCAPLUS
 DN 131:291311
 TI Pharmaceutical preparations containing hydrosoluble **ketoprofen** salts
 IN Giorgetti, Paolo Luca Maria
 PA Errekappa Euroterapici S.p.A., Italy
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K031-40
 ICS A61K031-70; A61K031-19; C07H005-06; C07D207-16; C07C051-41; C07C059-84
 CC 63-6 (Pharmaceuticals)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9952528	A1	19991021	WO 1999-IB626	19990409

W: CA, CN, JP, KR, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE

CH 692939 A 20021231 CH 1998-843 19980411

EP 1024808 A1 20000809 EP 1999-910606 19990409

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI

JP 2002510336 T2 20020402 JP 1999-551422 19990409

US 6291527 B1 20010918 US 1999-445672 19991210

PRAI CH 1998-843 A 19980411

CH 1999-618 A 19990331

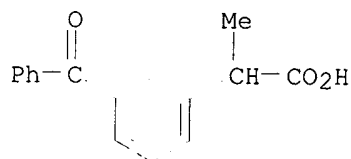
WO 1999-IB626 W 19990409

- AB The new pharmaceutical preps. contain hydrosol. salts obtained through a reaction between **ketoprofen** and **glucosamine** and/or Proline and/or Hydroxyproline from 0.01 to 30 % of the mass. Such preps. are useful for anti-inflammatory and **analgesic** treatment of joints and mucous membranes. Thus, an i.m. injection (quantities for 1 unit) consisted of **ketoprofen glucosamine** salt 170 equiv. to **ketoprofen** acid 100 mg, excipients such as benzyl alc. 90, NaCl 27 mg and water for injectable preps. up to 3 mL.
- ST **ketoprofen** salt pharmaceutical hydrosoluble
- IT Drug delivery systems
(capsules, controlled-release; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(capsules; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(chewing gums; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(foams; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(gels; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(granules, pharmaceutical; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(granules, sustained release; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(injections, i.m.; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(injections, i.v.; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(injections; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(lotions; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(ointments, creams; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(ointments; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)
- IT Drug delivery systems
(oral; pharmaceutical preps. contg. hydrosol. **ketoprofen** salts)

IT **Analgesics**
 Anti-inflammatory agents
 Mouthwashes
 (pharmaceutical prepsns. contg. hydrosol. **ketoprofen** salts)
IT Drug delivery systems
 (solns., ophthalmic; pharmaceutical prepsns. contg. hydrosol.
 ketoprofen salts)
IT Drug delivery systems
 (solns.; pharmaceutical prepsns. contg. hydrosol. **ketoprofen**
 salts)
IT Drug delivery systems
 (suppositories; pharmaceutical prepsns. contg. hydrosol.
 ketoprofen salts)
IT Drug delivery systems
 (suspensions, sustained-release; pharmaceutical prepsns. contg.
 hydrosol. **ketoprofen** salts)
IT Drug delivery systems
 (suspensions; pharmaceutical prepsns. contg. hydrosol.
 ketoprofen salts)
IT Drug delivery systems
 (tablets, coated; pharmaceutical prepsns. contg. hydrosol.
 ketoprofen salts)
IT Drug delivery systems
 (tablets; pharmaceutical prepsns. contg. hydrosol. **ketoprofen**
 salts)
IT Drug delivery systems
 (topical; pharmaceutical prepsns. contg. hydrosol. **ketoprofen**
 salts)
IT Drug delivery systems
 (transdermal; pharmaceutical prepsns. contg. hydrosol.
 ketoprofen salts)
IT Drug delivery systems
 (vaginal; pharmaceutical prepsns. contg. hydrosol. **ketoprofen**
 salts)
IT **246858-10-6**
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (9099000 pharmaceutical prepsns. contg. hydrosol. **ketoprofen**
 salts)
IT **22071-15-4D, Ketoprofen, salts** 246858-11-7
 246858-12-8
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical prepsns. contg. hydrosol. **ketoprofen** salts)
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Green Cross Corporation; JP 63093718 A 1988 HCAPLUS
(2) Hoechst Celanese Corporation; WO 9412451 A 1994 HCAPLUS
(3) Laboratorios Menarini; WO 9616016 A 1996 HCAPLUS
(4) The Procter & Gamble Company; WO 9507079 A 1995 HCAPLUS
(5) Veronesi; US 4748174 A 1988 HCAPLUS
IT **246858-10-6**
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (9099000 pharmaceutical prepsns. contg. hydrosol. **ketoprofen**
 salts)
RN 246858-10-6 HCAPLUS
CN D-Glucose, 2-amino-2-deoxy-, 3-benzoyl-.alpha.-methylbenzeneacetate (salt)
 (9CI) (CA INDEX NAME)

CM 1

CRN 22071-15-4
CMF C16 H14 O3

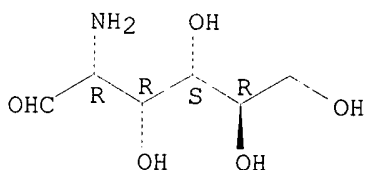


CM 2

CRN 3416-24-8

CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).

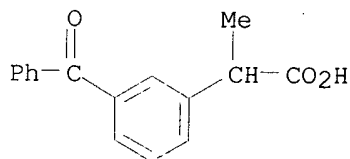


IT 22071-15-4D, Ketoprofen, salts

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical preps. contg. hydrosol. ketoprofen salts)

RN 22071-15-4 HCAPLUS

CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl- (9CI) (CA INDEX NAME)



L68 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS

AN 1999:551706 HCAPLUS

DN 131:161659

TI Pharmaceutical preparations containing (R)-2-(3-Benzoylphenyl)propionic acid salts for the treatment of neutrophil-dependent diseases and phlogistic processes

IN Bertini, Riccardo; Bizzarri, Cinzia; Brandolini, Laura; Melillo, Gabriella; Caselli, Gianfranco; Clavenna, Gaetano

PA Dompe S.p.A., Italy

SO Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A61K031-19

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 935961	A2	19990818	EP 1999-101322	19990125
	EP 935961	A3	20000823		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

IT 1298214	B1	19991220	IT 1998-MI146	19980128
US 6069172	A	20000530	US 1999-237901	19990127
PRAI IT 1998-MI146	A	19980128		

AB A new use of the enantiomer (R)-**ketoprofen** and of its salts with suitable org. and inorg. bases in the therapy of neutrophil-dependent diseases and phlogistic processes is described as well as pharmaceutical preps. contg. such compds. and useful for oral, parenteral or topical administration. Specific inhibitory effects of lysine salts of (R)- and (S)-**ketoprofen** on interleukin-8- stimulated chemotactic migration are shown. The effects of these drugs were not limited to interleukin-8-stimulated chemotaxis, but were also displayed, surprisingly, on the processes induced by other physiol and non-physiol. stimulant acting, although in different ways, through variations in intracellular Ca++ concn. An injection soln. contained (R)-**ketoprofen** lysine salt 80, citric acid 2.5, sodium hydrate 1.5 mg, and water 1 mL.

ST pharmaceutical enantiomer **ketoprofen** salt neutrophil disease; injection pharmaceutical lysine **ketoprofen**

IT Neutrophil
 (-dependent diseases; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Reperfusion
 (damage from; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Drug delivery systems
 (emulsions; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Lung, disease
 (fibrosis, idiopathic; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Drug delivery systems
 (foams; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Kidney, disease
 (glomerulonephritis; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Drug delivery systems
 (granules; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Drug delivery systems
 (injections; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Drug delivery systems
 (ointments, creams; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

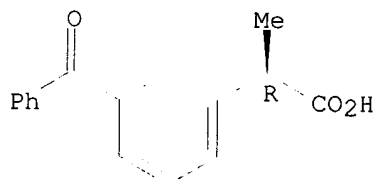
IT Drug delivery systems
 (ointments; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Drug delivery systems
 (parenterals; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)

IT Psoriasis

- (pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT Drug delivery systems
(powders; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT Breathing (animal)
(respiratory failure, acute; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT Drug delivery systems
(solns.; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT Drug delivery systems
(sprays; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT Drug delivery systems
(suppositories; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT Drug delivery systems
(tablets; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT Drug delivery systems
(topical; pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT **56105-81-8D**, salts 167300-65-4 167300-66-5 167300-67-6
167300-68-7 167300-69-8 167300-70-1 237742-71-1 237742-72-2
237742-73-3 237742-74-4 237742-75-5 237742-76-6 237742-77-7
237742-78-8 237742-79-9 237742-80-2 237742-81-3 **237742-82-4**
237742-83-5
- RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- IT **56105-81-8D**, salts **237742-82-4**
- RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical preps. contg. enantiomer (R)-**ketoprofen** and of its salts for treatment of neutrophil-dependent diseases and phlogistic processes)
- RN **56105-81-8** HCAPLUS
- CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl-, (.alpha.R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

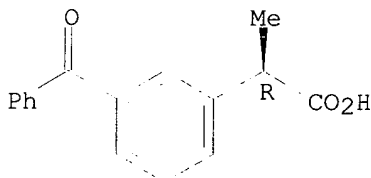


RN 237742-82-4 HCAPLUS
 CN D-Glucose, 2-amino-2-deoxy-, (.alpha.R)-3-benzoyl-.alpha.-
 methylbenzeneacetate (9CI) (CA INDEX NAME)

CM 1

CRN 56105-81-8
 CMF C16 H14 O3

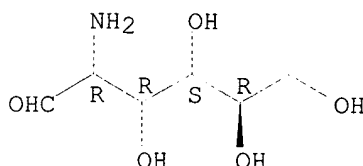
Absolute stereochemistry. Rotation (-).



CM 2

CRN 3416-24-8
 CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).



L68 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS
 AN 1997:224073 HCAPLUS
 DN 126:216664
 TI Pharmaceutical compositions containing **analgesics** and
antihistamines and methods for treating respiratory disorders
 IN Cramer, Ronald Dean; Mitra, Sekhar; Riker, Donald Kay
 PA Procter and Gamble Company, USA
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K045-06
 ICS A61K031-40; A61K031-19
 ICI A61K031-40, A61K031-19; A61K031-40, A61K031-19, A61K031-135; A61K031-40,
 A61K031-19, A61K031-485
 CC 63-6 (Pharmaceuticals)
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9704808	A1	19970213	WO 1996-US12249	19960725
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,				

IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA
 CA 2227958 AA 19970213 CA 1996-2227958 19960725
 AU 9665991 A1 19970226 AU 1996-65991 19960725
 EP 841947 A1 19980520 EP 1996-925495 19960725
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
 JP 11510168 T2 19990907 JP 1996-507747 19960725
 ZA 9606385 A 19970604 ZA 1996-6385 19960728
 PRAI US 1995-508775 A 19950728
 US 1996-611528 A 19960305
 WO 1996-US12249 W 19960725
 OS MARPAT 126:216664
 AB Compns. and methods for providing improved treatment, management or mitigation of cold cold-like, allergy, sinus and/or flu symptoms by administering a safe and effective amt. of a compn. comprising an **analgesic** agent along with certain pyrrolidine and piperidine ether **antihistaminic** agents. A hard gelatin capsule contained **ibuprofen** 200.00, clemastine fumarate 0.67, pseudoephedrine.HCl 30.00 mg, and lactose q.s. Administration of 1-2 capsules every 4-12 h provide relief from cough, cold, flu and allergic rhinitis symptoms.
 ST pharmaceutical **analgesic antihistamine** respiratory disorder; capsule clemastine pseudoephedrine cold flu cough
 IT Drug delivery systems
 (capsules; pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)
 IT Respiratory tract
 (disease; pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)
 IT Drug delivery systems
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (liqs.; pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)
 IT Allergy inhibitors
Analgesics
Anti-inflammatory agents
Antihistamines
 Antitussives
Decongestants
 Expectorants
 Influenza
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)
 IT Amino acids, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (salts; pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)
 IT Drug delivery systems
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (tablets; pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)
 IT Adrenoceptor agonists
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (.alpha.-; pharmaceutical compns. contg. **analgesics** and

antihistamines for treating respiratory disorders)

IT 56-87-1, Lysine, biological studies 58-08-2, Caffeine, biological studies 58-73-1, Diphenhydramine 59-33-6 59-42-7, Phenylephrine 59-46-1, Procaine 62-49-7, Choline 70-26-8, Ornithine 71-00-1, Histidine, biological studies 74-79-3, Arginine, biological studies 76-57-3, Codeine 77-22-5, Caramiphen 77-23-6, Carbetapentane 79-09-4D, Propanoic acid, derivs., biological studies 83-67-0, Theobromine 86-22-6, Brompheniramine 90-82-4, Pseudoephedrine 91-81-6, Tripeleminamine 93-14-1, Glyceryl guaiacolate 100-37-8, 2-Diethylaminoethanol 102-69-2, Tripropylamine 107-15-3, 1,2-Ethanediamine, biological studies 107-43-7, Betaine 108-01-0 110-85-0, Piperazine, biological studies 110-89-4, Piperidine, biological studies 113-92-8 118-23-0, Bromodiphenhydramine 120-73-0, Purine 121-44-8, biological studies 125-29-1, Hydrocodone 125-69-9, Dextromethorphan hydrobromide 125-71-3, Dextromethorphan 125-92-8, Dexdrabamine 128-62-1, Noscapine 129-03-3, Cyproheptadine 132-21-8, Dexbrompheniramine 299-42-3, Ephedrine 345-78-8, Pseudoephedrine hydrochloride 466-99-9, Hydromorphone 486-12-4 486-16-8, Carbinoxamine 562-10-7 569-59-5 616-91-1, n-Acetylcysteine 766-09-6, n-Ethylpiperidine 791-35-5, Chlophedianol 2451-01-6, Terpin hydrate 3416-24-8, **Glucosamine** 3572-43-8, Bromhexine 3964-81-6, Azatadine 5104-49-4, Flurbiprofen 6284-40-8, Methylglucamine 7723-51-5 12125-02-9, Ammonium chloride, biological studies 14838-15-4, Phenylpropanolamine 14976-57-9, Clemastine fumarate 15307-86-5, Diclofenac **15687-27-1, Ibuprofen** 18053-31-1, Fominoben 18683-91-5, Ambroxol 21256-18-8, Oxaprozin **22071-15-4, Ketoprofen** 22204-53-1, Naproxen 25523-97-1, Dexchlorpheniramine 26159-34-2, Naproxen sodium 29216-28-2, Mequitazine 29679-58-1, Fenoprofen 31793-07-4, Pirprofen 31842-01-0, Indoprofen 33005-95-7, Tiaprofen 34580-13-7, Ketotifen 36330-85-5, Fenbufen 39718-89-3, Alminoprofen 40198-53-6, Tioxaprofen 40828-46-4, Suprofen 50679-08-8, Terfenadine 51234-28-7, Benoxaprofen 52549-17-4, Pranoprofen 53716-49-7, Carprofen 53882-12-5, Lodoxamide 55843-86-2, Miroprofen 58581-89-8, Azelastine 60607-34-3, Oxatomide 64294-95-7, Setastine 68844-77-9, Astemizole 76201-68-8 79516-68-0, Levocabastine 79712-55-3, Tazifylline 79794-75-5, Loratidine 83881-51-0, Cetirizine 86181-42-2, Temelastine 87848-99-5, Acrivastine 90729-43-4, Ebastine 96170-72-8 113403-10-4 115609-60-4, AHR 11325 162929-63-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)

IT 3416-24-8, **Glucosamine 15687-27-1, Ibuprofen 22071-15-4, Ketoprofen**

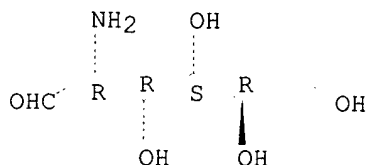
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compns. contg. **analgesics** and **antihistamines** for treating respiratory disorders)

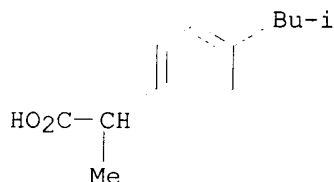
RN 3416-24-8 HCAPLUS

CN D-Glucose, 2-amino-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

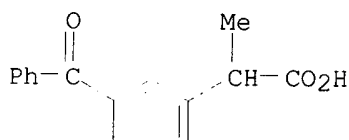
Absolute stereochemistry. Rotation (+).



RN 15687-27-1 HCAPLUS
 CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 22071-15-4 HCAPLUS
 CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl- (9CI) (CA INDEX NAME)



L68 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2003 ACS

AN 1995:546946 HCAPLUS

DN 122:274115

TI Compositions containing an amino acid salt of a propionic acid
nonsteroidal antiinflammatory agent and at least one of
 a **decongestant**, an expectorant, an **antihistamine**, and
 an antitussive

IN Mitra, Sekhar

PA Procter and Gamble Co., USA

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K045-06

ICS A61K031-19; A61K031-445; A61K031-485

CC 63-6 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9507103	A1	19950316	WO 1994-US9581	19940824
	W: AU, BR, CA, CN, JP, PL, RU				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2170488	AA	19950316	CA 1994-2170488	19940824
	AU 9476040	A1	19950327	AU 1994-76040	19940824
	EP 719156	A1	19960703	EP 1994-926020	19940824
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CN 1130354	A	19960904	CN 1994-193312	19940824
	BR 9407414	A	19961112	BR 1994-7414	19940824
	JP 09502201	T2	19970304	JP 1994-508695	19940824
PRAI	US 1993-116927		19930907		
	WO 1994-US9581		19940824		

AB A method for providing improved treatment, management, or mitigation of cold, coldlike, and/or flu symptoms comprises administering a safe and effective amt. of a compn. comprising certain amino acid salts of propionic acid **nonsteroidal antiinflammatory** agents

along with .gtoreq.1 of a **decongestant**, expectorant, **antihistamine**, and antitussive. Thus, a hard gelatin capsule contained naproxen lysinate 200, pseudoephedrine-HCl 30, astemizole 5, and glyceryl guaiacolate 100 mg.

- ST common cold **nonsteroidal antiinflammatory decongestant**; expectorant **nonsteroidal antiinflammatory** common cold; **antihistaminic nonsteroidal antiinflammatory** common cold; antitussive **nonsteroidal antiinflammatory** common cold
- IT **Antihistaminics**
 Antitussives
 Common cold
 Decongestants
 Expectorants
 Influenza
 (common cold treatment with amino acid salt of propionic acid **nonsteroidal antiinflammatory** agent and **decongestant**, expectorant, **antihistamine**, and/or antitussive)
- IT Amino acids, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (salts with **nonsteroidal antiinflammatory** drugs; common cold treatment with amino acid salt of propionic acid **nonsteroidal antiinflammatory** agent and **decongestant**, expectorant, **antihistamine**, and/or antitussive)
- IT **Inflammation inhibitors**
 (**nonsteroidal**, amino acid salts; common cold treatment with amino acid salt of propionic acid **nonsteroidal antiinflammatory** agent and **decongestant**, expectorant, **antihistamine**, and/or antitussive)
- IT 56-87-1D, L-Lysine, compds. with **nonsteroidal antiinflammatory** drugs 58-08-2D, Caffeine, compds. with **nonsteroidal antiinflammatory** drugs 58-73-1, Diphenhydramine 59-33-6 59-42-7, Phenylephrine 59-46-1D, Procaine, compds. with **nonsteroidal antiinflammatory** drugs 62-49-7D, Choline, compds. with **nonsteroidal antiinflammatory** drugs 70-26-8D, L-Ornithine, compds. with **nonsteroidal antiinflammatory** drugs 71-00-1D, L-Histidine, compds. with **nonsteroidal antiinflammatory** drugs 74-79-3D, L-Arginine, compds. with **nonsteroidal antiinflammatory** drugs 76-57-3, Codeine 77-22-5, Caramiphen 77-23-6, Carbetapentane 79-09-4D, Propionic acid, derivs., amino acid salts 83-67-0D, Theobromine, compds. with **nonsteroidal antiinflammatory** drugs 86-22-6, Brompheniramine 90-82-4, Pseudoephedrine 91-81-6, Tripelennamine 93-14-1, Glyceryl guaiacolate 100-37-8D, 2-Diethylaminoethanol, compds. with **nonsteroidal antiinflammatory** drugs 102-69-2D, Tripropylamine, compds. with **nonsteroidal antiinflammatory** drugs 107-15-3D, 1,2-Ethanediamine, compds. with **nonsteroidal antiinflammatory** drugs 107-43-7D, Betaine, compds. with **nonsteroidal antiinflammatory** drugs 108-01-0D, compds. with **nonsteroidal antiinflammatory** drugs 110-85-0D, Piperazine, compds. with **nonsteroidal antiinflammatory** drugs 110-89-4D, Piperidine, compds. with **nonsteroidal antiinflammatory** drugs 113-92-8, Chlorpheniramine maleate 118-23-0, Bromodiphenhydramine 120-73-0D, Purine, compds. with **nonsteroidal antiinflammatory** drugs 121-44-8D, compds. with **nonsteroidal antiinflammatory** drugs 125-29-1, Hydrocodone 125-69-9, Dextromethorphan hydrobromide 125-71-3, Dextromethorphan 125-92-8D, Hydrabamine, compds. with

nonsteroidal antiinflammatory drugs 128-62-1,
 Noscapine 129-03-3, Cyproheptadine 132-21-8, Dexbrompheniramine
 299-42-3, Ephedrine 345-78-8, Pseudoephedrine hydrochloride 466-99-9,
 Hydromorphone 486-12-4, Triprolidine 486-16-8, Carbinoxamine
 562-10-7 569-59-5 616-91-1, N-Acetylcysteine 766-09-6D,
 N-Ethylpiperidine, compds. with **nonsteroidal**
antiinflammatory drugs 791-35-5, Chlophedianol 2451-01-6,
 Terpin hydrate **3416-24-8D**, **Glucosamine**, compds. with
nonsteroidal antiinflammatory drugs 3572-43-8,
 Bromhexine 3964-81-6, Azatadine 5104-49-4D, Flurbiprofen, amino acid
 salts 6284-40-8D, Methylglucamine, compds. with **nonsteroidal**
antiinflammatory drugs 12125-02-9, Ammonium chloride, biological
 studies 14838-15-4, Phenylpropanolamine **15687-27-1D**,
Ibuprofen, amino acid salts 18053-31-1, Fominoben 18683-91-5,
 Ambroxol 21256-18-8D, Oxaprozin, amino acid salts **22071-15-4D**,
Ketoprofen, amino acid salts 22204-53-1D, Naproxen, amino acid
 salts 25523-97-1, Dexchlorpheniramine 29216-28-2, Mequitazine
 31793-07-4D, Pirprofen, amino acid salts 31842-01-0D, Indoprofen, amino
 acid salts 31879-05-7D, Fenoprofen, amino acid salts 33005-95-7D,
 Tiaprofen, amino acid salts 34580-13-7, Ketotifen 36330-85-5D,
 Fenbufen, amino acid salts 39718-89-3D, Alminoprofen, amino acid salts
 40198-53-6D, Tioxaprofen, amino acid salts 40828-46-4D, Suprofen, amino
 acid salts 50679-08-8, Terfenadine 51234-28-7D, Benoxaprofen, amino
 acid salts 52549-17-4D, Pranoprofen, amino acid salts 53716-49-7D,
 Carprofen, amino acid salts 53882-12-5, Lodoxamide 55843-86-2D,
 Miroprofen, amino acid salts 57351-43-6 58581-89-8, Azelastine
 60607-34-3, Oxatomide 64294-95-7, Setastine 68844-77-9, Astemizole
 79516-68-0, Levocabastine 79712-55-3, Tazifylline 79794-75-5,
 Loratadine 83881-51-0, Cetirizine 86181-42-2, Temelastine
 87848-99-5, Acrivastine 90729-43-4, Ebastine 113403-10-4
 115609-60-4, AHR-11325 136013-66-6 158721-32-5
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)

(common cold treatment with amino acid salt of propionic acid
nonsteroidal antiinflammatory agent and
 decongestant, expectorant, antihistamine, and/or
 antitussive)

IT **3416-24-8D**, **Glucosamine**, compds. with
nonsteroidal antiinflammatory drugs **15687-27-1D**
 , **Ibuprofen**, amino acid salts **22071-15-4D**,
Ketoprofen, amino acid salts

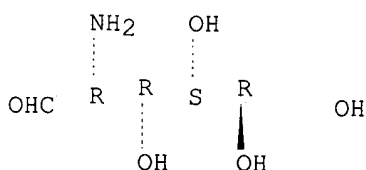
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)

(common cold treatment with amino acid salt of propionic acid
nonsteroidal antiinflammatory agent and
 decongestant, expectorant, antihistamine, and/or
 antitussive)

RN **3416-24-8** HCAPLUS

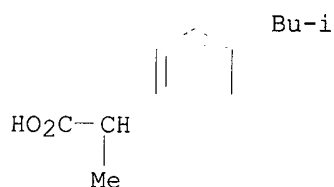
CN D-Glucose, 2-amino-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



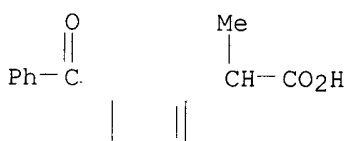
RN **15687-27-1** HCAPLUS

CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 22071-15-4 HCAPLUS

CN Benzeneacetic acid, 3-benzoyl-.alpha.-methyl- (9CI) (CA INDEX NAME)



L68 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS

AN 1992:537660 HCAPLUS

DN 117:137660

TI S(+)-phenylalkanoic acids and aminosugar complexes

IN Paradies, Henrich Hasko

PA MEDICE Chem.-Pharm. Fabrik Puetter GmbH und Co. KG, Germany

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM C07C057-30

ICS A61K031-205; C07H005-06

CC 63-5 (Pharmaceuticals)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 486046	A2	19920520	EP 1991-119523	19911115
	EP 486046	A3	19921209		
	EP 486046	B1	19960501		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	HU 59692	A2	19920629	HU 1991-3572	19911114
	CA 2055681	AA	19920516	CA 1991-2055681	19911115
	DE 4137683	A1	19920521	DE 1991-4137683	19911115
	AU 9187904	A1	19920521	AU 1991-87904	19911115
	AU 642309	B2	19931014		
	CN 1061415	A	19920527	CN 1991-110740	19911115
	ZA 9109075	A	19920826	ZA 1991-9075	19911115
	JP 06184003	A2	19940705	JP 1991-354100	19911115
	JP 2542765	B2	19961009		
	AT 137486	E	19960515	AT 1991-119523	19911115
	BR 9104997	A	19920623	BR 1991-4997	19911118
	US 5604206	A	19970218	US 1994-328722	19940218
PRAI	DE 1990-4036460		19901115		
	US 1991-792479		19911115		

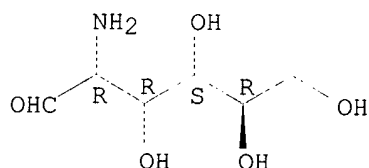
OS MARPAT 117:137660

AB H bridge 1:1 complexes of S-(+)-phenylalkanoic acid drugs with amino sugars are prepd. The complexes have higher bioavailability than the free

acids. A soln. of 206.27 mg S-(+)-**ibuprofen** and 236.72 mg 1-amino-1-deoxy-D-glucitol in 6 mL water was ultrasonicated at 45.degree., to give a 1:1 complex.

- ST phenylalkanoate amino sugar complex drug
 IT Drug bioavailability
 (of S-(+)-phenylalkanoic acid complexes with amino sugars)
 IT Carbohydrates and Sugars, compounds
 RL: BIOL (Biological study)
 (aminodeoxy, conjugates, with S-(+)-phenylalkanoic acids, for high-bioavailability pharmaceuticals)
 IT 488-43-7D, Glucamine, complexes with S-(+)-phenylalkanoic acids
 532-19-4D, complexes with S-(+)-phenylalkanoic acids 579-32-8D,
 complexes with S-(+)-phenylalkanoic acids 2494-50-0D, complexes with
 S-(+)-phenylalkanoic acids **3416-24-8D**, complexes with
 S-(+)-phenylalkanoic acids 5840-75-5D, complexes with
 S-(+)-phenylalkanoic acids 6284-40-8D, complexes with
 S-(+)-phenylalkanoic acids 6790-34-7D, complexes with
 S-(+)-phenylalkanoic acids 7535-00-4D, complexes with
 S-(+)-phenylalkanoic acids 14216-22-9D, complexes with
 S-(+)-phenylalkanoic acids 14307-02-9D, complexes with
 S-(+)-phenylalkanoic acids 14307-09-6D, complexes with
 S-(+)-phenylalkanoic acids 22204-53-1D, S-(+)-Naproxen, complexes with
 amino sugars 26315-48-0D, complexes with S-(+)-phenylalkanoic acids
 27799-64-0D, Allosamine, complexes with S-(+)-phenylalkanoic acids
 51108-70-4D, Ribamine, complexes with S-(+)-phenylalkanoic acids
 51146-56-6D, S-(+)-**Ibuprofen**, complexes with amino
 sugars 83058-22-4D, complexes with S-(+)-phenylalkanoic acids
 RL: BIOL (Biological study)
 (high-bioavailability pharmaceuticals)
 IT 134309-33-4P 143381-45-7P
 RL: PREP (Preparation)
 (prepn. of, as high-bioavailability pharmaceutical)
 IT **3416-24-8D**, complexes with S-(+)-phenylalkanoic acids
 51146-56-6D, S-(+)-**Ibuprofen**, complexes with amino
 sugars
 RL: BIOL (Biological study)
 (high-bioavailability pharmaceuticals)
 RN 3416-24-8 HCAPLUS
 CN D-Glucose, 2-amino-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



- RN 51146-56-6 HCAPLUS
 CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)-, (.alpha.S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

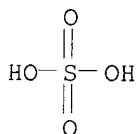
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:222087

L72 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 127831-02-1 REGISTRY
CN D-Glucose, 2-amino-2-deoxy-, hydrogen sulfate (ester) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C6 H13 N O5 . x H2 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

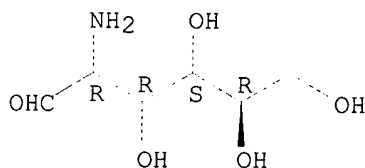
CRN 7664-93-9
CMF H2 O4 S



CM 2

CRN 3416-24-8
CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).



2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

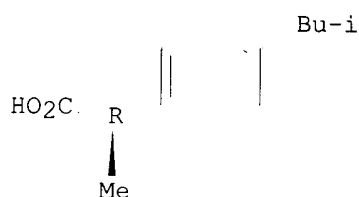
REFERENCE 1: 136:199305

REFERENCE 2: 113:29136

L72 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 51146-57-7 REGISTRY
CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)-, (.alpha.R)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzeneacetic acid, .alpha.-methyl-4-(2-methylpropyl)-, (R)-
OTHER NAMES:
CN (-)-.alpha.-Methyl-4-(2-methylpropyl)benzeneacetic acid
CN (-)-Ibuprofen
CN (-)-Ibuprophen
CN (R)-(-)-Ibuprofen
CN (R)-2-(4-Isobutylphenyl)propanoic acid

CN (R)-Ibuprofen
CN 12: PN: WO02073205 FIGURE: 7 claimed sequence
CN 1-Ibuprofen
CN R-(-)-p-Isobutylhydratropic acid
FS STEREOSEARCH
MF C13 H18 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
CA, CAPLUS, CASREACT, CEN, CHEMINFORMRX, CIN, CSCHM, IPA, PROMT,
TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

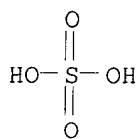
529 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
529 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:65749
REFERENCE 2: 137:369721
REFERENCE 3: 137:242132
REFERENCE 4: 137:216777
REFERENCE 5: 137:195592
REFERENCE 6: 137:191189
REFERENCE 7: 137:150277
REFERENCE 8: 137:149476
REFERENCE 9: 137:114625
REFERENCE 10: 137:83751

L72 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2003 ACS
RN 33508-19-9 REGISTRY
CN D-Glucose, 2-amino-2-deoxy-, sulfate (1:1) (salt) (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C6 H13 N O5 . H2 O4 S

CM 1

CRN 7664-93-9
CMF H2 O4 S

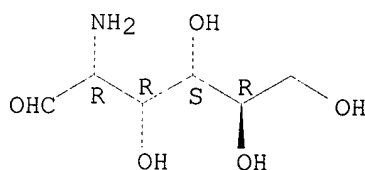


CM 2

CRN 3416-24-8

CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).



L72 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 22161-81-5 REGISTRY

CN **Benzeneacetic acid, 3-benzoyl-.alpha.-methyl-, (.alpha.S)- (9CI)**
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN **Benzeneacetic acid, 3-benzoyl-.alpha.-methyl-, (S)-**

CN Hydratropic acid, m-benzoyl-, (+)- (8CI)

OTHER NAMES:

CN (+)-(S)-m-Benzoylhydratropic acid

CN (+)-2-(3-Benzoylphenyl)propionic acid

CN **(+)-3-Benzoyl-.alpha.-methylbenzeneacetic acid**

CN (+)-3-Benzoylhydratropic acid

CN **(+)-Ketoprofen**

CN (2S)-2-(3-Benzoylphenyl)propionic acid

CN (S)-(+)-2-(3-Benzoylphenyl)propionic acid

CN (S)-2-(3-Benzoylphenyl)propionic acid

CN **(S)-Ketoprofen**CN **Dexketoprofen**CN **S(+)-Ketoprofen**

FS STEREOSEARCH

MF **C16 H14 O3**

CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CEN, CHEMCATS,
 CHEMINFORMRX, CIN, CSCHEM, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES,
 EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, PHAR, PROMT, RTECS*, TOXCENTER,
 USAN, USPATFULL

(*File contains numerically searchable property data)

Other Sources: WHO

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

382 REFERENCES IN FILE CA (1962 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 383 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 138:19408
 REFERENCE 2: 138:11225
 REFERENCE 3: 137:379776
 REFERENCE 4: 137:375140
 REFERENCE 5: 137:261988
 REFERENCE 6: 137:257005
 REFERENCE 7: 137:241443
 REFERENCE 8: 137:162942
 REFERENCE 9: 137:124232
 REFERENCE 10: 137:108341

L72 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 14999-43-0 REGISTRY

CN D-Glucose, 2-amino-2-deoxy-, sulfate (2:1) (salt) (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2-Amino-2-deoxy-.beta.-D-glucose sulfate

CN Tiocondramina

FS STEREOSEARCH

MF C6 H13 N O5 . 1/2 H2 O4 S

CI COM

LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM

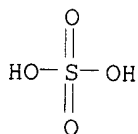
Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 7664-93-9

CMF H2 O4 S

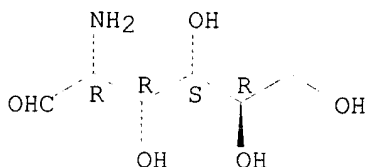


CM 2

CRN 3416-24-8

CMF C6 H13 N O5

Absolute stereochemistry. Rotation (+).



3 REFERENCES IN FILE CA (1962 TO DATE)

3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:166636

REFERENCE 2: 107:218005

REFERENCE 3: 66:85991

L72 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 14257-69-3 REGISTRY

CN .beta.-D-Glucopyranose, 2-amino-2-deoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glucopyranose, 2-amino-2-deoxy-, .beta.-D- (8CI)

OTHER NAMES:

CN .beta.-D-Glucosamine

CN 2-Amino-2-deoxy-.beta.-D-glucopyranose

FS STEREOSEARCH

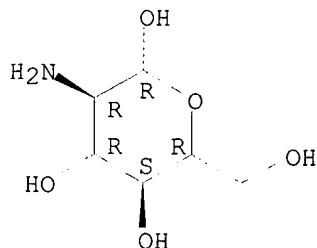
DR 28905-10-4

MF C6 H13 N O5

CI COM

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS,
 CASREACT, CHEMINFORMRX, HODOC*, MRCK*, SPECINFO, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

50 REFERENCES IN FILE CA (1962 TO DATE)

10 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

50 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:201480

REFERENCE 2: 137:168260
REFERENCE 3: 136:216348
REFERENCE 4: 135:235349
REFERENCE 5: 135:149658
REFERENCE 6: 134:39012
REFERENCE 7: 133:59007
REFERENCE 8: 133:5384
REFERENCE 9: 131:161649
REFERENCE 10: 131:130186

L72 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 14131-63-6 REGISTRY

CN .beta.-D-Glucopyranose, 2-amino-2-deoxy-, hydrochloride (9CI) (CA INDEX NAME)

OTHER NAMES:

CN .beta.-Glucosamine hydrochloride

CN 2-Amino-2-deoxy-.beta.-D-glucopyranose hydrochloride

FS STEREOSEARCH

DR 140400-23-3

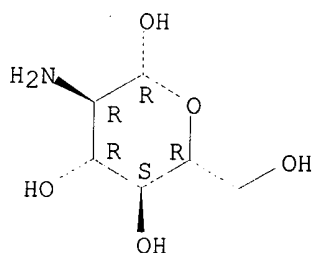
MF C6 H13 N O5 . Cl H

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, GMELIN*, HODOC*, SPECINFO, TOXCENTER

(*File contains numerically searchable property data)

CRN (14257-69-3)

Absolute stereochemistry.



● HCl

19 REFERENCES IN FILE CA (1962 TO DATE)

19 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 131:254291
REFERENCE 2: 131:228899
REFERENCE 3: 131:152961
REFERENCE 4: 129:224901
REFERENCE 5: 120:190966

REFERENCE 6: 119:96006
REFERENCE 7: 116:194737
REFERENCE 8: 107:237258
REFERENCE 9: 100:44337
REFERENCE 10: 99:158803

L72 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 14131-62-5 REGISTRY

CN .alpha.-D-Glucopyranose, 2-amino-2-deoxy-, hydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glucopyranose, 2-amino-2-deoxy-, hydrochloride, .alpha.-D- (8CI)

OTHER NAMES:

CN **.alpha.-Glucosamine hydrochloride**

CN 2-Amino-2-deoxy-.alpha.-D-glucopyranose hydrochloride

FS STEREOSEARCH

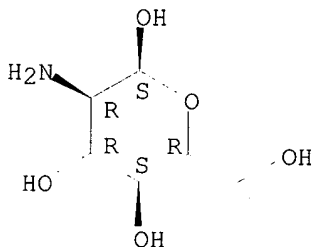
MF C6 H13 N O5 . Cl H

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, CSCHEM, GMELIN*, SPECINFO, TOXCENTER

(*File contains numerically searchable property data)

CRN (6490-70-6)

Absolute stereochemistry.



● HCl

33 REFERENCES IN FILE CA (1962 TO DATE)

33 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 137:232735
REFERENCE 2: 137:79182
REFERENCE 3: 136:159026
REFERENCE 4: 134:326004
REFERENCE 5: 130:296924
REFERENCE 6: 130:81741
REFERENCE 7: 125:276366

REFERENCE 8: 121:256173

REFERENCE 9: 119:96006

REFERENCE 10: 118:115974

L72 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2003 ACS

RN 6490-70-6 REGISTRY

CN .alpha.-D-Glucopyranose, 2-amino-2-deoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glucopyranose, 2-amino-2-deoxy-, .alpha.-D- (8CI)

OTHER NAMES:

CN .alpha.-D-Glucosamine

FS STEREOSEARCH

DR 66141-43-3, 28905-11-5

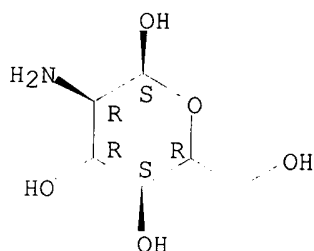
MF C6 H13 N O5

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMINFORMRX,
GMELIN*, MRCK*, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

45 REFERENCES IN FILE CA (1962 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

45 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:189215

REFERENCE 2: 134:340642

REFERENCE 3: 133:252635

REFERENCE 4: 132:206486

REFERENCE 5: 131:199916

REFERENCE 6: 130:81741

REFERENCE 7: 129:276168

REFERENCE 8: 128:321844

REFERENCE 9: 128:57507

REFERENCE 10: 127:95502

=> fil embase

FILE 'EMBASE' ENTERED AT 11:20:59 ON 27 JAN 2003
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FILE COVERS 1974 TO 16 Jan 2003 (20030116/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d all tot 191

L91 ANSWER 1 OF 5 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
AN 2001268073 EMBASE
TI Sulfate could mediate the therapeutic effect of **glucosamine**
sulfate.
AU Hoffer L.J.; Kaplan L.N.; Hamadeh M.J.; Grigoriu A.C.; Baron M.
CS Dr. L.J. Hoffer, Lady Davis Inst. for Medical Res, Jewish General Hospital,
3755 Cote-Ste-Catherine Rd, Montreal, Que. H3T 1E2, Canada
SO Metabolism: Clinical and Experimental, (2001) 50/7 (767-770).
Refs: 31
ISSN: 0026-0495 CODEN: METAAJ
CY United States
DT Journal; Article
FS 037 Drug Literature Index
031 Arthritis and Rheumatism
030 Pharmacology
LA English
SL English
AB **Glucosamine** sulfate is a controversial osteoarthritis remedy
that is presumed to stimulate articular cartilage glycosaminoglycan
synthesis by increasing **glucosamine** concentrations in the joint
space. However, this is not plausible because even large oral doses of the
product have no effect on serum **glucosamine** concentrations. We
propose instead that sulfate could mediate the clinical benefit attributed
to this treatment. Sulfate is required for glycosaminoglycan synthesis,
and unlike **glucosamine**, its serum level can be modified by
dietary and other factors. In this study, we tested whether oral
glucosamine sulfate increases serum sulfate concentrations and
whether the sulfate concentration in the synovial fluid reflects that in
the serum. The serum sulfate concentration of 7 normal subjects was $331 \pm 21 \mu\text{mol/L}$ before ingestion of 1.0 g **glucosamine** sulfate
and $375 \pm 17 \mu\text{mol/L}$ 3 hours after ($P < .05$). Serum sulfate
concentrations decreased from 325 ± 19 to $290 \pm 19 \mu\text{mol/L}$ when
the same dose of **glucosamine** sulfate was ingested with 1.0 g of
the analgesic drug acetaminophen, which is largely metabolized by
sulfation ($P < .05$). Unlike **glucosamine** sulfate, oral sodium
sulfate did not significantly increase the serum sulfate concentration.
Synovial fluid and serum sulfate concentrations were closely similar when
measured in 15 patients undergoing diagnostic needle aspiration of a knee
effusion ($r = .99$, slope = .97, $P < .0001$). These results do not prove that
glucosamine sulfate improves osteoarthritis, but considered with
other data, they do provide a plausible biochemical mechanism for its
reported beneficial effects. This hypothesis is clinically relevant
because it predicts that nonsulfate salts of **glucosamine** will be
ineffective and that renal function, diet, and concurrent
acetaminophen therapy could confound clinical trials of this therapy.
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CT Medical Descriptors:
human
controlled study
clinical article
male

female
drug effect
osteoarthritis: DT, drug therapy
articular cartilage
glycosaminoglycan metabolism
drug potentiation
drug synovial fluid level
drug blood level
dietary intake
concentration (parameters)
dose response
sulfation
drug metabolism
joint effusion: DI, diagnosis
joint effusion: DT, drug therapy
needle biopsy
prediction
kidney function
article
priority journal
Drug Descriptors:

*glucosamine sulfate: DT, drug therapy
*glucosamine sulfate: PD, pharmacology
*glucosamine sulfate: CR, drug concentration
*glucosamine sulfate: IT, drug interaction
*glucosamine sulfate: CB, drug combination
*glucosamine sulfate: PO, oral drug administration
*glucosamine sulfate: DO, drug dose
*glucosamine sulfate: CM, drug comparison
*glucosamine sulfate: PK, pharmacokinetics

*sulfate

glycosaminoglycan: EC, endogenous compound

paracetamol: CB, drug combination

paracetamol: PK, pharmacokinetics

paracetamol: DT, drug therapy

sodium sulfate: PO, oral drug administration

sodium sulfate: CM, drug comparison

sodium sulfate: PD, pharmacology

RN (glucosamine sulfate) 29031-19-4; (sulfate)

14808-79-8; (paracetamol) 103-90-2; (sodium sulfate) 7757-82-6

CO SISU Enterprises (Canada)

L91 ANSWER 2 OF 5 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

AN 2001252379 EMBASE

TI Current concepts regarding pharmacologic treatment of rheumatoid and osteoarthritis.

AU Wildy K.S.; Wasko M.C.M.

CS Dr. M.C.M. Wasko, Division of Rheumatology, 3500 Terrace Street, BST South 700, Pittsburgh, PA 15261, United States

SO Hand Clinics, (2001) 17/2 (321-338).

Refs: 76

ISSN: 0749-0712 CODEN: HACLEO

CY United States

DT Journal; General Review

FS 031 Arthritis and Rheumatism

037 Drug Literature Index

038 Adverse Reactions Titles

LA English

SL English

AB Treating patients with osteoarthritis (OA) and rheumatoid arthritis (RA) remains challenging; however, new agents offer the chance for an improved quality of life. As an alternative to traditional nonsteroidal anti-inflammatories, cyclooxygenase-2 inhibitors provide pain relief for

OA and RA patients with possible fewer side effects. Otherwise, OA patients may opt for topical agents, injections, or supplements. Rheumatoid arthritis research has led to an improved understanding of the inflammatory cascade and an appreciation of the early tissue destruction. A new treatment philosophy has thus emerged along with the development of new biologic agents; the latter, along with **combination** therapy and a new disease modifying antirheumatic drug, leflunomide, have greatly expanded the chances for disease control in RA patients.

CT

Medical Descriptors:

- *rheumatoid arthritis: DT, drug therapy
- *rheumatoid arthritis: ET, etiology
- *osteoarthritis: DT, drug therapy
- *osteoarthritis: ET, etiology
- drug effect
- enzyme activity
- enzyme blood level
- drug mechanism
- treatment outcome
- dose response
- risk factor
- protein expression
- disease severity
- drug indication
- dyspepsia: SI, side effect
- abdominal pain: SI, side effect
- analgesia
- risk assessment
- nausea and vomiting: SI, side effect
- headache: SI, side effect
- bone marrow suppression: SI, side effect
- drug potency
- rash: SI, side effect
- alopecia: SI, side effect
- human
- clinical trial
- review

Drug Descriptors:

- *nonsteroid antiinflammatory agent: AE, adverse drug reaction
- *nonsteroid antiinflammatory agent: DT, drug therapy
- *nonsteroid antiinflammatory agent: TO, drug toxicity
- *nonsteroid antiinflammatory agent: PD, pharmacology
- *corticosteroid: AE, adverse drug reaction
- *corticosteroid: DT, drug therapy
- *corticosteroid: PD, pharmacology
- *corticosteroid: AR, intraarticular drug administration
- *corticosteroid: PO, oral drug administration
- *cyclooxygenase 2 inhibitor: AE, adverse drug reaction
- *cyclooxygenase 2 inhibitor: DT, drug therapy
- *cyclooxygenase 2 inhibitor: PD, pharmacology
- *antirheumatic agent: AE, adverse drug reaction
- *antirheumatic agent: CT, clinical trial
- *antirheumatic agent: DT, drug therapy
- *antirheumatic agent: PD, pharmacology
- cyclooxygenase 1: EC, endogenous compound
- cyclooxygenase 2: EC, endogenous compound
- arachidonic acid: EC, endogenous compound
- leukotriene: EC, endogenous compound
- phospholipase A2: EC, endogenous compound
- thromboxane A2: EC, endogenous compound
- ketoprofen: DT, drug therapy
- flurbiprofen: DT, drug therapy
- indometacin: DT, drug therapy
- piroxicam: DT, drug therapy

naproxen: DT, drug therapy
 ibuprofen: DT, drug therapy
 diclofenac: DT, drug therapy
 etodolac: DT, drug therapy
 meloxicam: DT, drug therapy
 rofecoxib: AE, adverse drug reaction
 rofecoxib: DT, drug therapy
 celecoxib: AE, adverse drug reaction
 celecoxib: DT, drug therapy
 hyaluronic acid: DT, drug therapy
 glucosamine sulfate: DT, drug therapy
 hydroxychloroquine: AE, adverse drug reaction
 hydroxychloroquine: CT, clinical trial
 hydroxychloroquine: CB, drug combination
 hydroxychloroquine: DT, drug therapy
 hydroxychloroquine: PD, pharmacology
 salazosulfapyridine: AE, adverse drug reaction
 salazosulfapyridine: CT, clinical trial
 salazosulfapyridine: CB, drug combination
 salazosulfapyridine: DT, drug therapy
 salazosulfapyridine: PD, pharmacology
 methotrexate: AE, adverse drug reaction
 methotrexate: CT, clinical trial
 methotrexate: CB, drug combination
 methotrexate: DT, drug therapy
 methotrexate: PD, pharmacology
 methotrexate: PO, oral drug administration
 cyclosporin: AE, adverse drug reaction
 cyclosporin: CB, drug combination
 cyclosporin: DT, drug therapy
 cyclosporin: PD, pharmacology
 leflunomide: AE, adverse drug reaction
 leflunomide: DT, drug therapy
 leflunomide: PD, pharmacology
 etanercept: CT, clinical trial
 etanercept: DT, drug therapy
 etanercept: PD, pharmacology
 infliximab: CT, clinical trial
 infliximab: DT, drug therapy
 infliximab: PD, pharmacology
 glucocorticoid: AE, adverse drug reaction
 glucocorticoid: DT, drug therapy
 capsaicin: AE, adverse drug reaction
 capsaicin: DT, drug therapy
 capsaicin: TP, topical drug administration
 azathioprine: DT, drug therapy
 actron
 diclofenac potassium

RN (arachidonic acid) 506-32-1, 6610-25-9, 7771-44-0; (phospholipase A2)
 9001-84-7; (thromboxane A2) 57576-52-0; (**ketoprofen**)
 22071-15-4, 57495-14-4; (flurbiprofen) 5104-49-4; (indometacin)
 53-86-1, 74252-25-8, 7681-54-1; (piroxicam) 36322-90-4; (naproxen)
 22204-53-1, 26159-34-2; (**ibuprofen**) 15687-27-1;
 (diclofenac) 15307-79-6, 15307-86-5; (etodolac) 41340-25-4; (meloxicam)
 71125-38-7; (rofecoxib) 162011-90-7, 186912-82-3; (celecoxib) 169590-42-5;
 (hyaluronic acid) 31799-91-4, 9004-61-9, 9067-32-7; (**glucosamine**
 sulfate) 29031-19-4; (hydroxychloroquine) 118-42-3, 525-31-5;
 (salazosulfapyridine) 599-79-1; (methotrexate) 15475-56-6, 59-05-2,
 7413-34-5; (cyclosporin) 79217-60-0; (leflunomide) 75706-12-6;
 (etanercept) 185243-69-0, 200013-86-1; (infliximab) 170277-31-3;
 (capsaicin) 404-86-4; (azathioprine) 446-86-6; (diclofenac potassium)
 15307-81-0

CN (1) Remicade; Orudis; Actron; Ansaid; Indocin; Feldene; Naprosyn; Motrin;

Advil; Voltaren; Cataflam; Lodine; Mobic; Vioxx; Celebrex; Plaquenil;
Azulfidine; Arava

CO (1) Centecor (United States)

L91 ANSWER 3 OF 5 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

AN 2000063108 EMBASE

TI **Glucosamine** in the treatment of osteoarthritis.

AU Delafuente J.C.

CS J.C. Delafuente, 410 North 12th Street, Richmond, VA 23298-0533, United States

SO Rheumatic Disease Clinics of North America, (2000) 26/1 (1-11).

Refs: 21

ISSN: 0889-857X CODEN: RDCAEK

CY United States

DT Journal; General Review

FS 031 Arthritis and Rheumatism

033 Orthopedic Surgery

037 Drug Literature Index

038 Adverse Reactions Titles

LA English

SL English

AB **Glucosamine** sulfate, a constituent of cartilage, is evaluated for the treatment of osteoarthritis. Available data suggest that **glucosamine** decreases pain and improves function in osteoarthritis. Most of the **glucosamine** studies have methodological flaws or used parenteral **formulations**, making their data difficult to extrapolate into clinical practice. **Glucosamine** sulfate is shown to be as good as **ibuprofen** for osteoarthritis of the knee. Better designed clinical trials of **glucosamine** are needed to identify its role in the pharmacotherapy of osteoarthritis.

CT Medical Descriptors:

*knee osteoarthritis

*pain assessment

functional disease

drug efficacy

drug mechanism

articular cartilage

drug bioavailability

dose response

heartburn: SI, side effect

epigastric pain: SI, side effect

nausea: SI, side effect

diet supplementation

human

controlled study

review

priority journal

Drug Descriptors:

***glucosamine** sulfate: AE, adverse drug reaction

***glucosamine** sulfate: AD, drug administration

***glucosamine** sulfate: CM, drug comparison

***glucosamine** sulfate: DO, drug dose

***glucosamine** sulfate: PK, pharmacokinetics

***glucosamine** sulfate: PD, pharmacology

***glucosamine** sulfate: AR, intraarticular drug administration

***glucosamine** sulfate: IM, intramuscular drug administration

***glucosamine** sulfate: IV, intravenous drug administration

***glucosamine** sulfate: PO, oral drug administration

ibuprofen: CM, drug comparison

ibuprofen: DO, drug dose

ibuprofen: PD, pharmacology

placebo

chlorbutol: CM, drug comparison
 chlorbutol: IM, intramuscular drug administration
 piperazine: CM, drug comparison
 piperazine: IM, intramuscular drug administration
 chondroitin sulfate

RN (glucosamine sulfate) 29031-19-4; (ibuprofen)
) 15687-27-1; (chlorbutol) 57-15-8; (piperazine) 110-85-0,
 142-63-2, 142-64-3, 16832-43-2, 6094-40-2; (chondroitin sulfate)
 9007-28-7, 9082-07-9

L91 ANSWER 4 OF 5 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

AN 94150643 EMBASE

DN 1994150643

TI Glucosamine sulfate compared to ibuprofen in
 osteoarthritis of the knee.

AU Muller-Fassbender H.; Bach G.L.; Haase W.; Rovati L.C.; Setnikar I.

CS Department of Clinical Pharmacology, Rotta Research Laboratorium, Via
 Valosa di Sopra 7, 20052 Monza, Italy

SO Osteoarthritis and Cartilage, (1994) 2/1 (61-69).

ISSN: 1063-4584 CODEN: OSCAEO

CY United Kingdom

DT Journal; Article

FS 019 Rehabilitation and Physical Medicine

031 Arthritis and Rheumatism

030 Pharmacology

037 Drug Literature Index

038 Adverse Reactions Titles

LA English

SL English

AB Glucosamine sulfate is able to stimulate proteoglycan synthesis
 by chondrocytes and has mild anti-inflammatory properties. In clinical
 trials, glucosamine sulfate was more effective than placebo in
 controlling the symptoms of osteoarthritis (OA). In order to better
 characterize this therapeutic activity, we conducted a randomized,
 double-blind, parallel-group study of glucosamine sulfate 500 mg
 t.i.d. vs ibuprofen 400 mg t.i.d., orally for 4 weeks. The study
 included 200 hospitalized patients with active OA of the knee, symptoms
 for at least 3 months and a Lequesne's index of at least 7 points.
 Patients were evaluated weekly. Response was defined as a reduction in the
 Lequesne's index by at least 2 points if the enrolment value was higher
 than 12 points, or by at least 1 point if the enrolment value was 12 or
 less points, together with a positive overall assessment by the
 investigator. The improvement tended to be sooner under ibuprofen
 (48% responders vs 28% after the 1st treatment week; $P = 0.06$, Fisher's
 Exact test), but there was no difference from the 2nd week onward, with a
 success rate of 52% in the ibuprofen group and of 48% in the
 glucosamine group ($P = 0.67$) at the end of treatment. The average
 Lequesne's index at enrolment was around 16 points and decreased by over 6
 points in both groups, again with the above described trend. On the other
 hand, 35% of patients on ibuprofen reported adverse events,
 mainly of gastrointestinal origin, vs 6% adverse events with
 glucosamine ($P < 0.001$, Fisher's Exact test). The number of
 adverse event related drop-outs was different between the two groups (7%
 vs 1%, respectively; $P = 0.035$). Glucosamine sulfate was
 therefore as effective as ibuprofen on symptoms of knee OA.
 These data confirm glucosamine sulfate as a safe symptomatic
 Slow Acting Drug for OA.

CT Medical Descriptors:

*knee osteoarthritis: DT, drug therapy

*knee osteoarthritis: TH, therapy

adult

aged

article

clinical trial
 controlled study
 double blind procedure
 fatigue: SI, side effect
 female
 flushing
 gastrointestinal disease: SI, side effect
 human
 major clinical study
 male
 oral drug administration
 priority journal
 pruritus: SI, side effect
 randomized controlled trial
 rash: SI, side effect
 side effect

Drug Descriptors:

*glucosamine sulfate: DT, drug therapy
 *glucosamine sulfate: AE, adverse drug reaction
 *glucosamine sulfate: CM, drug comparison
 *glucosamine sulfate: CT, clinical trial
 *ibuprofen: DT, drug therapy
 *ibuprofen: AE, adverse drug reaction
 *ibuprofen: CM, drug comparison
 *ibuprofen: CT, clinical trial

RN (glucosamine sulfate) 29031-19-4; (ibuprofen
) 15687-27-1

L91 ANSWER 5 OF 5 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.

AN 80119580 EMBASE

DN 1980119580

TI Biochemical gastroprotection from acute ulceration induced by aspirin and related drugs.

AU Rainsford K.D.; Whitehouse M.W.

CS Biochem. Dept., Univ. Tasmania Med. Sch., Hobart, Australia

SO Biochemical Pharmacology, (1980) 29/9 (1281-1289).

CODEN: BCPA6

CY United Kingdom

DT Journal

FS 037 Drug Literature Index

030 Pharmacology

LA English

AB Adjuncts that serve as: (a) buffers to neutralize drug acidity, and/or (b) solubilizers of acidic drugs, or (c) certain nutrients (e.g. glucose, acetate), considerably reduced the gastric mucosal injury induced by orally administered aspirin (and other non-steroidal anti-inflammatory drugs) in stressed and starved rats. Gastroprotection against aspirin and related drugs was obtained by supplying the mucosa with glucose with intermediates or precursors of the tricarboxylic acid cycle (that may be absorbed directly from the gastric lumen). Glucose alone was not sufficiently gastroprotective. Gastroprotection with tricarboxylic acid cycle precursors given with glucose appears to be due to the effects of these nutrients in restoring ATP synthesis in the gastric mucosa. D-glutamate and D-aspartate were deaminated by homogenates prepared from saline-washed rat fundic mucosa (yielding .alpha.-oxo acids for the tricarboxylic acid cycle). These amino acids could be substituted for the L-forms in **combination** with glucose to yield gastroprotection from damage by aspirin. Studies in domestic pigs (a species with a pseudo-human stomach) established that acute and chronic oral administration of the aspirin+acetate+glucose **combination** (1:3:3 molar proportions) was less irritating to the gastric mucosa than aspirin alone. These results were confirmed in acute studies in monkeys. Sodium and potassium salts were superior to calcium and ammonium salts as the

buffer component in these improved (i.e. less gastrototoxic) aspirin **formulations** tested in rats. Bicarbonate was not effective in preventing aspirin gastrototoxicity in stressed-sensitized rats, but is effective in non-stressed rats.

CT

Medical Descriptors:

*3,5 dibromoacetylsalicylic acid

*cell metabolism

*formate sodium

*malate sodium

*maleate sodium

*malonate sodium

*stomach mucosa

*stomach ulcer

adverse drug reaction

pathogenesis

ph

stress

etiology

preliminary communication

animal experiment

oral drug administration

stomach

swine

rat

drug comparison

Drug Descriptors:

*3 hydroxybutyric acid

*acetic acid

***acetylsalicylic acid**

*alanine

*ammonium acetate

*antiinflammatory agent

*arginine

*aspartic acid

*benzoic acid

*butyric acid

*calcium acetate

*citrate trisodium

*citric acid

*disodium hydrogen phosphate

*fructose

*galactose

*glucose

*glutamine

*glycerol

*glycine

*lactate sodium

*lactose

*lysine

***n acetylglucosamine**

*sodium dihydrogen phosphate

*pyruvate sodium

*ribose

*sucrose

RN

(3 hydroxybutyric acid) 300-85-6; (acetic acid) 127-08-2, 127-09-3, 64-19-7, 71-50-1; (acetylsalicylic acid) 493-53-8, 50-78-2, 53663-74-4, 53664-49-6, 63781-77-1; (alanine) 56-41-7, 6898-94-8; (ammonium acetate) 631-61-8; (arginine) 1119-34-2, 15595-35-4, 7004-12-8, 74-79-3; (aspartic acid) 56-84-8, 6899-03-2; (benzoic acid) 532-32-1, 582-25-2, 65-85-0, 766-76-7; (butyric acid) 107-92-6, 156-54-7, 461-55-2; (calcium acetate) 62-54-4; (citrate trisodium) 6132-04-3, 68-04-2; (citric acid) 126-44-3, 5949-29-1, 77-92-9, 8002-14-0; (disodium hydrogen phosphate) 7558-79-4; (fructose) 30237-26-4, 57-48-7, 7660-25-5, 77907-44-9; (galactose)

26566-61-0, 50855-33-9, 59-23-4; (glucose) 50-99-7, 84778-64-3;
(glutamine) 56-85-9, 6899-04-3; (glycerol) 56-81-5; (glycine) 56-40-6,
6000-43-7, 6000-44-8; (lactate sodium) 72-17-3; (lactose) 10039-26-6,
16984-38-6, 63-42-3, 64044-51-5; (lysine) 56-87-1, 6899-06-5, 70-54-2; (n
acetylglucosamine) **7512-17-6**; (sodium dihydrogen
phosphate) 7558-80-7, 7632-05-5; (pyruvate sodium) 113-24-6; (ribose)
34466-20-1, 50-69-1, 93781-19-2; (sucrose) 122880-25-5, 57-50-1

CN Aspirin

=> fil wpix

FILE 'WPIX' ENTERED AT 11:43:53 ON 27 JAN 2003

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FILE LAST UPDATED: 24 JAN 2003 <20030124/UP>
MOST RECENT DERWENT UPDATE: 200306 <200306/DW>
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=> d all abeq tech abex tot 1128

L128 ANSWER 1 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 2002-616446 [66] WPIX

DNN N2002-487716 DNC C2002-174257

TI Method, useful for treating musculoskeletal disorders, comprises topical
application of a composition comprising penetration enhancers and an
antiinflammatory agent in a gel vehicle.

DC A96 B04 B05 P34

IN PETRUS, E J

PA (ADME-N) ADVANCED MEDICAL INSTR

CYC 1

PI US 6399093 B1 20020604 (200266)* 9p A61L015-16

ADT US 6399093 B1 US 1999-314829 19990519

PRAI US 1999-314829 19990519

IC ICM A61L015-16

AB US 6399093 B UPAB: 20021014

NOVELTY - Method (I), comprises topical application of a composition (II)
comprising:

(A) penetration enhancers from alcohols, polyols, sulfoxides, esters, ketones, amides, oleates, surfactants, alkanolic acids, lactam compounds, alkanols or dialkylamino acetates; and

(B) an antiinflammatory agent from non-steroidal antiinflammatory agent or colchicine (0.1 - 25% of (I)), in a gel vehicle.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a composition (II) for use in the method.

ACTIVITY - Osteopathic; Muscular; Antiinflammatory; Analgesic.
No biological data available.

MECHANISM OF ACTION - None given.

USE - (I) is useful for treating musculoskeletal disorders (claimed) and providing antiinflammatory and analgesic benefits.

Dwg.0/0

FS CPI GMPI

FA AB; DCN

MC CPI: A99-A; B04-A10; B06-A01; B06-A03; B06-E05; B08-D01; B10-A10;
B10-B02A; **B10-C04C**; **B14-C01**; B14-C03

TECH UPTX: 20021014

TECHNOLOGY FOCUS - BIOLOGY - Preferred Composition: (II) may further include analgesics, antioxidants, anti-infective agents, adjuvants, anthocyanidins, proanthocyanidins, muscle relaxants, nitric oxide synthase inhibitors, methyl-sulfonyl-methane, S-adenosyl-methionine, zinc compounds, aloe vera extract, amino sugars, glycosaminoglycans, manganese, magnesium, boron or herbal derivatives (claimed).
(II) comprises 0.2 - 0.5 mg of colchicine and 2 - 6% of etodolac, **ibuprofen** or diclofenac.

ABEX

EXAMPLE - A typical joint analgesic gel comprises **ibuprofen** (5%), carboxyvinyl polymers (2%), aloe vera gel (1%), propylene glycol (20%), **glucosamine** sulfate (20%), methyl-sulfonyl-methane (10%), ethanol (10%), triethanolamine (1%), zinc sulfate (1%), methyl paraben (0.1%), propyl paraben (0.02%) and water (29.9%).

L128 ANSWER 2 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 2002-372086 [40] WPIX

DNC C2002-105331

TI Composition used for treating pain comprises **glucosamine** material and analgesic compound.

DC B05

IN COWAN, A; RAFFA, R; TALLARIDA, R

PA (UTEM) UNIV TEMPLE

CYC 97

PI WO 2002026239 A1 20020404 (200240)* EN 23p A61K031-70

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO
RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

US 2002058642 A1 20020516 (200240) A61K031-7008

AU 2001092929 A 20020408 (200252) A61K031-70

ADT WO 2002026239 A1 WO 2001-US29606 20010921; US 2002058642 A1 Provisional US
2000-235405P 20000926, US 2001-964178 20010925; AU 2001092929 A AU
2001-92929 20010921

FDT AU 2001092929 A Based on WO 200226239

PRAI US 2000-235405P 20000926; US 2001-964178 20010925

IC ICM A61K031-70; A61K031-7008

ICS A61K031-192

AB WO 200226239 A UPAB: 20020626

NOVELTY - Dosage form (I) comprises a **glucosamine** material (II) and an analgesic compound (III) in a weight ratio that results in an analgesic effect at least as great as that expected for the analgesic alone at that dosage.

ACTIVITY - Analgesic.

MECHANISM OF ACTION - None given in the source material.

USE - Useful for the control of pain caused by a wide variety of disorders e.g. colds and influenza, arthritis, headache, toothache, dysmenorrhea, surgery and muscle and joint pain.

ADVANTAGE - The components of (I) give a synergistic analgesic effect.

DESCRIPTION OF DRAWING(S) - The drawing shows the analgesic effect of **ibuprofen** alone and a combination of **ibuprofen** and **glucosamine** sulfate on acetylcholine-induced abdominal constrictions in mice.

Dwg.1/3

FS

CPI

FA

AB; GI; DCN

MC

CPI: **B10-A07; B10-C04B; B10-C04C;**
B14-C01; B14-C09; B14-S09

TECH

UPTX: 20020626

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Materials: (III) Comprises a non steroidal antiinflammatory drug, preferably a propionic acid analgesic, **ibuprofen** or **ketoprofen**. (II) Is **glucosamine** or its salts, alpha- or beta-**glucosamine**, **N-acetyl glucosamine**, **glucosamine** sulfate or **glucosamine** hydrochloride.

Preferred Composition: The ratio of (II) to (III) is at least 1:2, especially 1:2-10:1. (I) Also contains anti arthritic, antihistamine, muscle relaxant, sleep aid, decongestant and/or bronchodilator.

ABEX

ADMINISTRATION - The dosage is 10-6000 mg/kg/day orally, parenterally or topically.

EXAMPLE - **Glucosamine** sulfate (250 mg) and **ibuprofen** (27.8 mg) were combined with water (10 ml) containing 2 drops of Tween (RTM; dispersant) to give a composition with a **glucosamine** to **ibuprofen** weight ratio of 5.2:1.

In tests on mice, various combinations of **glucosamine** sulfate and analgesic were administered and the pain relief recorded using an acetylcholine-induced abdominal constriction model. The results showed that **ibuprofen** alone exhibited an ED50 value of 26 mg/kg, but the combination of **ibuprofen** with **glucosamine** sulfate (9:1 ratio) gave an ED50 value of 2.08 mg/kg.

L128 ANSWER 3 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 2002-179010 [23] WPIX

CR 2002-082384 [01]; 2002-082386 [01]; 2002-082387 [01]; 2002-121526 [11];
2002-381872 [36]

DNC C2002-055485

TI Composition useful for treatment of pain comprises a pharmaceutical, nutraceutical and a base.

DC B05

IN GELBER, D; KLEINBERGER, R

PA (GELB-I) GELBER D; (KLEI-I) KLEINBERGER R

CYC 1

PI US 2002006445 A1 20020117 (200223)* 16p A61K035-78

ADT US 2002006445 A1 Provisional US 2000-184351P 20000223, US 2001-754204
20010105

PRAI US 2000-184351P 20000223; US 2001-754204 20010105

IC ICM A61K035-78

AB US2002006445 A UPAB: 20020701

NOVELTY - A composition comprises at least one pharmaceutical (P1), at least one nutraceutical (N1) for treating pain resulting from an inflammatory response and a base.

ACTIVITY - Analgesic; virucide, antiallergic; antimigraine; gynecological; antiinflammatory; antiarthritic; antipyretic; antitussive.

MECHANISM OF ACTION - None given.

USE - For the treatment of a patient suffering from pain resulting from an inflammatory response (claimed); also for the treatment of predetermined symptoms of an ailment; for the treatment of symptoms of colds, flu, allergies or sinus discomfort; for discomfort associated with heartburn, general body aches, headaches, migraines, menstruation, joint discomfort and arthritis. Also useful for the treatment of immune response (e.g. sinus congestion; red, itchy or watery eyes; and sneezing) resulting from exposure to atmospheric pollutants or allergens. Useful in healing process as well as preventing future maladies.

ADVANTAGE - The composition comprising combinations of pharmaceutical and nutraceutical increases the beneficial effects of the pharmaceutical utilized. The composition not only treats a current ailment more effectively, but also functions to prevent the recurrence of illness.

Dwg.0/0

FS

CPI

FA

AB; DCN

MC

CPI: B03-F; B04-A07E; B04-A08; B04-A10; B04-C02; B05-A03A; B06-D01; B06-F03; B07-A01; B07-D02; B07-D08; B10-A10; B10-B02; B10-C04; B10-D03; B10-F02; B14-A02; **B14-C01**; B14-C03; B14-C04; B14-C09; B14-G02A; B14-K01B; B14-N14; B14-S08

TECH

UPTX: 20020411

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Components: (P1) is selected from a group consisting of pain relieving and/or anti-inflammatory agents (preferably acetaminophen and/or non-steroidal anti-inflammatory drug (NSAID)). (N1) is selected from immune boosters, anti-oxidants, a liver protectant and/or joint relief agents. The nutraceutical immune booster is selected from zinc and its salt and at least one herb selected from Echinacea, Sambucus and/or Goldenseal. The nutraceutical anti-oxidant is selected from a bioflavonoid, at least one herbal extract containing at least one bioflavonoid, ascorbic acid and its salt, garlic and its extract, green tea and its extracts, and/or at least one herb selected from Astragalus. The nutraceutical liver protectant is milk thistle. The nutraceutical joint relief agent is selected from **glucosamine**, **glucosamine** sulfate, chondroitin, chondroitin sulfate and its salts.

ABEX

SPECIFIC COMPOUNDS - Acetaminophen, diclophenac, fenflofenac, aspirin, indomethacin, sulindac, tolmetin, **ibuprofen**, **ketoprofen**, fenoprofen, flurbiprofen, naproxen, meclofenamic acid, flufenamic acid, piroxicam, tenoxicam, meloxicam, celicoxib, roficoxib and/or nabumetone are specifically claimed as (P1).

ADMINISTRATION - The composition is administered orally and topically onto nasal mucosa.

EXAMPLE - A solid composition comprised (mg) acetaminophen (60 - 1000, preferably 200 - 750 and more preferably 350 - 550), diphenhydramine (5 - 100, preferably 10 - 50, more preferably 20 - 40), pseudoephedrine (5 - 100, preferably 10 - 75, more preferably 20 - 40), Echinacea purpurea (10 - 500, preferably 25 - 200, more preferably 50 - 100), Goldenseal (50 - 200, preferably 75 - 150, more preferably 80 - 120), Elderberry (sambucol) (50 - 250, preferably 75 - 175, more preferably 100 - 150), garlic extract (50 - 200, preferably 75 - 150, more preferably 80 - 120), green tea extract (50 - 120, preferably 75 - 150, more preferably 80 - 120), astragalus (50 - 250, preferably 75 - 175, more preferably 100 - 150), zinc gluconate (0.1 - 15, preferably 0.5 - 10, more preferably 0.5 - 7.5 and ascorbic acid (50 - 1000, preferably 100 - 750, more preferably 200 - 500). The composition is administered in the form of a capsule to a mammal, for treating the symptoms of a cold or flu every 4 - 6 hours to relieve pain and discomfort and to provide immune system stimulation. Echinacea purpurea and Astragalus assisted in boosting the immune system while the pharmaceutical components treat the symptoms associated with inflammatory and mucous accumulation.

L128 ANSWER 4 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 2001-565929 [64] WPIX

CR 2001-457762 [50]

DNC C2001-167995

TI Treatment of photophobia and phonophobia associated with migraine attack, comprises use of **ibuprofen**.

DC A96 B05

IN CODISPOTI, J R

PA (MCNI) MCNEIL-PPC INC

CYC 31

PI CA 2326549 A1 20010524 (200164)* EN 23p A61K031-192

CN 1298700 A 20010613 (200164) A61K031-19

EP 1129710 A2 20010905 (200164) EN A61K031-192

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR

JP 2001192332 A 20010717 (200164) 6p A61K031-192

KR 2001051939 A 20010625 (200172) A61K031-192

NZ 508292 A 20020830 (200265) A61K031-615

ADT CA 2326549 A1 CA 2000-2326549 20001123; CN 1298700 A CN 2000-128380
20001123; EP 1129710 A2 EP 2000-310391 20001123; JP 2001192332 A JP
2000-356516 20001122; KR 2001051939 A KR 2000-70461 20001124; NZ 508292 A
NZ 2000-508292 20001120

FDT NZ 508292 A Div in NZ 518742

PRAI US 2000-709069 20001109; US 1999-449124 19991124

IC ICM A61K031-19; A61K031-192; A61K031-615

ICS A61K031-535; A61P025-06

AB CA 2326549 A UPAB: 20021010

NOVELTY - A method for mitigation or treatment of photophobia and phonophobia associated with migraine comprises the use of **ibuprofen** (a), its salts (b) and/or its isomers (c).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

- (i) a medicament for mitigating or treating photophobia and phonophobia associated with migraine comprising (a), (b) and/or (c);
- (ii) a composition for mitigating or treating photophobia and phonophobia associated with migraine comprising (a), (b) and/or (c); and
- (iii) a commercial package for mitigating or treating photophobia and phonophobia associated with migraine, which comprises (a), (b) and/or (c) together with instructions for use of the package.

ACTIVITY - Antimigraine; analgesic; antiinflammatory.

Of the 650 patients suffering from photophobia due to migraine some patients were given placebo, while others were given either 200 or 400 mg of **ibuprofen**. Periodic assessments of their photophobia were made by determining % of patients with severity reduced to zero. The results for **ibuprofen** (200 mg)/**ibuprofen** (400 mg)/placebo-treated patients showed that % of patients with photophobia severity reduced to zero at a time (hours) of 2, 3 and 5 was 22/19/15; 29/26/19 and 37/34/26 respectively.

MECHANISM OF ACTION - None given.

USE - For mitigating or treating photophobia and phonophobia associated with migraines (claimed).

ADVANTAGE - The method utilizes the action of a single active ingredient, which is commercially available and does not cause undesired side effects.

Dwg.0/2

FS CPI

FA AB; DCN

MC CPI: A12-V01; B10-C04C; B14-C01; B14-C03; B14-J01

TECH UPTX: 20011105

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Component: (b) is an inorganic cation salt (preferably sodium, potassium, lithium, magnesium, calcium, cesium, ammonia, ferrous, zinc, manganous, aluminum, ferric or manganic).

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Components: (b) is an inorganic cation salt and/or an organic salt of (a) with primary, secondary, tertiary or quaternary amine (preferably triethylamine, tripropylamine, 2-dimethylaminoethanol, 2-diethylaminoethanol, lysine, arginine, histidine, caffeine, procain, N-ethyl piperidine, hydrabamine, choline, betaine, ethylenediamine, **glucosamine**, tris(hydroxymethyl)aminomethane, methylglycamine, theobromine, purine, piperazine, piperidine, or polyamine resin). The mixture of (a), (b) and (c) is preferably a mixture of (a) and its sodium salt. (c) is R-**ibuprofen** and/or S-**ibuprofen**.

ABEX

ADMINISTRATION - The administration is oral. The amount of **ibuprofen** and/or its isomer is 100-800 (preferably 200-400) mg per dose. The salt of the **ibuprofen** is administered in a dosage of about 100-1700 mg per dose, whereas the mixture of **ibuprofen**, its isomer and its salt is administered in a dosage of about 100-1700 (preferably 200-1300) mg per dose.

EXAMPLE - None given.

L128 ANSWER 5 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 2001-457762 [50] WPIX

CR 2001-565929 [64]

DNC C2001-138476

TI Use of an **ibuprofen** for treating photophobia and phonophobia associated with a migraine attack.

DC B05

IN CODISPOTI, J R

PA (MCNI) MCNEIL-PPC INC; (JOHJ) JOHNSON & JOHNSON

CYC 4

PI AU 2000071733 A 20010531 (200150)* 13p A61K031-192

BR 2000005560 A 20010731 (200150) A61K031-192

KR 2001051939 A 20010625 (200172) A61K031-192

ZA 2000006885 A 20021030 (200282) 16p A61K000-00

ADT AU 2000071733 A AU 2000-71733 20001121; BR 2000005560 A BR 2000-5560 20001124; KR 2001051939 A KR 2000-70461 20001124; ZA 2000006885 A ZA 2000-6885 20001123

PRAI US 1999-449124 19991124; US 2000-709069 20001109

IC ICM A61K000-00; A61K031-192

ICS A61P025-06

AB AU 200071733 A UPAB: 20021220

NOVELTY - Mitigation or treatment of photophobia and phonophobia associated with migraine involves the use of an **ibuprofen** (a), its salts (b) and/or its isomers (c).

ACTIVITY - Antimigraine; Analgesic; Antiinflammatory.

Of the 650 patients suffering from photophobia due to migraine some patients were given placebo, while others were given either 200 or 400 mg of **ibuprofen**. Periodic assessments of their photophobia were made by determining % of patients with severity reduced to zero. The results for **ibuprofen** (200 mg)/**ibuprofen** (400 mg)/placebo-treated patients showed that % of patients with photophobia severity reduced to zero at a time (hours) of 2,3 and 5 was 22/19/15; 29/26/19 and 37/34/26 respectively.

MECHANISM OF ACTION - None given.

USE - For mitigating or treating photophobia and phonophobia associated with migraines (claimed).

ADVANTAGE - The method utilizes the action of a single active ingredient, which is commercially available and does not cause undesired side effects.

Dwg.0/2

FS CPI

FA AB; DCN

MC CPI: B10-C04C; B14-C01; B14-N02; B14-N03
TECH UPTX: 20010905

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Component: (b) is an inorganic cation salt (preferably sodium, potassium, lithium, magnesium, calcium, cesium, ammonia, ferrous, zinc, manganous, aluminum, ferric or manganic).

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Components: (b) is an inorganic cation salt; and/or an organic salt of (a) with primary, secondary, tertiary or quaternary amine (preferably triethylamine, tripropylamine, 2-dimethylaminoethanol, 2-diethylaminoethanol, lysine, arginine, histidine, caffeine, procain, N-ethyl piperidine, hydrabamine, choline, betaine, ethylenediamine, **glucosamine**, TRIS (hydroxymethyl)aminomethane, methylglycamine, theobromine, pruline, piperazine, and/or piperidine). The mixture of (a), (b) and (c) is preferably a mixture of (a) and its sodium salt. (c) is R-**ibuprofen** and/or S-**ibuprofen**.

ABEX TECHNOLOGY FOCUS - POLYMERS - The organic salt is a polyamine resin.

ADMINISTRATION - The administration is oral. The amount of **ibuprofen** and/or its isomer is 100 - 800 (preferably 200 - 600, especially 200 - 400) mg per dose. The salt of the **ibuprofen** is administered in a dosage of about 100 - 1700 mg per dose, whereas the mixture of **ibuprofen**, its isomer and its salt is administered in a dosage of about 100 - 1700 (preferably 200 - 1300) mg per dose (all claimed).

EXAMPLE - None given.

L128 ANSWER 6 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 2001-182859 [18] WPIX

DNC C2001-054566

TI Treatment of pain due to degenerative joint diseases associated with inflammation in cats and dogs, using flupirtine as potent analgesic having low side-effect potential.

DC B05 C02 C03

IN ENDLER, G; LEHMANN, H; LOBISCH, M; SZELENYI, I; LOBICH, M

PA (ASTA) ASTA MEDICA AG; (FARB) BAYER AG; (DRED) AWD PHARMA GMBH & CO KG

CYC 56

PI WO 2001008682 A2 20010208 (200118)* DE 20p A61K031-44

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU BG BR BY CA CN CZ EE GE HR HU ID IL IN IS JP KG KR KZ LT LV MK

MX NO NZ PL RO RU SG SI SK TR UA UZ YU ZA

CA 2314746 A1 20010203 (200119) EN A61K031-44

AU 2000072717 A 20010219 (200129) A61K031-44

NO 2002000364 A 20020123 (200231) A61K031-44

BR 2000012942 A 20020709 (200254) A61K031-44

EP 1242078 A2 20020925 (200271) DE A61K031-44

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

KR 2002040767 A 20020530 (200276) A61K031-44

ADT WO 2001008682 A2 WO 2000-EP7356 20000729; CA 2314746 A1 CA 2000-2314746

20000801; AU 2000072717 A AU 2000-72717 20000729; NO 2002000364 A WO

2000-EP7356 20000729; NO 2002-364 20020123; BR 2000012942 A BR 2000-12942

20000729; WO 2000-EP7356 20000729; EP 1242078 A2 EP 2000-960383 20000729,

WO 2000-EP7356 20000729; KR 2002040767 A KR 2002-701445 20020201

FDT AU 2000072717 A Based on WO 200108682; BR 2000012942 A Based on WO

200108682; EP 1242078 A2 Based on WO 200108682

PRAI US 1999-147033P 19990803

IC ICM A61K031-44

ICS A61K009-20; A61K045-06; A61P019-00; A61P029-00

AB WO 200108682 A UPAB: 20010402

NOVELTY - The use of flupirtine (2-amino-3-ethoxycarbonylamino-6-(p-fluorobenzylamino)pyridine) (I) or its salt is claimed in the treatment of pain (and prevention of development of chronic pain) due to degenerative joint diseases associated with inflammation in cats and dogs.

ACTIVITY - Analgesic; antiarthritic; antirheumatic; antiinflammatory. In analgesic tests in dogs (I) had oral ID50 of 3.5 mg/kg, compared with 18 mg/kg for **ibuprofen**.

MECHANISM OF ACTION - Activator of noradrenergic descending pathway in the spinal cord; potentiator of antinociceptive GABA-ergic mechanisms; ATP-sensitive potassium ion channel opener; tension-dependent potassium ion channel opener.

USE - (I) is specifically used for treating hip joint dysplasia or pain due to patella dislocation, Dachshund paralysis or cauda-equina syndrome in dogs or cats (all claimed).

ADVANTAGE - (I) has strong analgesic activity and low toxicity and side-effect potential. In particular (I) causes no gastrointestinal, renal or hepatic damage on acute or long-term use (e.g. over 6-12 months).

Dwg.0/0

FS

CPI

FA

AB; DCN

MC

CPI: B07-D04C; **B14-C01**; C07-D04C; **C14-C01**

ABEX

ADMINISTRATION - (I) is formulated in granules, tablets (specifically film, chewable, 2-layer or retard tablets, especially tablets having single or double breakage indentations), bolus, powder, suppositories or injection solution, together with conventional carriers and auxiliaries (especially taste improvers in the case of oral preparations) (all claimed). Unit dose is typically 0.1-20 (preferably 1-5) mg/kg of (I) maleate (to a maximum of 600 mg/day) for oral administration, 0.1-30 (preferably 2.5-7.5) mg/kg of (I) maleate (to a maximum of 900 mg/day) for rectal administration or 1.5-5 mg/kg of (I) gluconate by (preferably intramuscular) injection. (I) is optionally used in combination with (a) antiinflammatories, especially selective COX-2 inhibitors (e.g. celecoxib, rofecoxib, valdecoxib or parecoxib), (b) other centrally acting analgesics (e.g. nefopam, tramadol, nalbuphine or dextropropoxyphene), (c) metamizol, (d) antirheumatic agents (e.g. chloroquine, hydroxychloroquine, methotrexate, penicillamine, ademetionine, sulfasalazin or beta-sitosterol), (e) vitamin B (e.g. thiamine, cyanocobalamine) or pyridoxine), (f) steroids (e.g. prednisolone). (g) chondro-protective agents (e.g. chondroitin, **glucosamine** or polysulfated glycosaminoglycan), (h) TNFalpha-receptors or (i) plant extracts (e.g. devil's claw root, stinging nettle leaf, guaiac wood, willow bark or arnica extract) (all claimed).

EXAMPLE - A mixture of 10 kg flupirtine (I), 2.5 kg calcium hydrogen phosphate and 2.5 kg maize starch was granulated with a solution of 1 kg polyvinyl pyrrolidone in 4 kg demineralized water. The granules were blended with 1.3 kg maize starch, 2 kg microcrystalline cellulose, 0.6 kg magnesium stearate, 0.1 kg highly dispersed silica and 1.5 kg Trigarol Digest P (RTM; taste improver), then pressed into 200 mg tablets of diameter of 9 mm and radius of curvature 10 mm, having double breakage indentations. Each tablet contained 100 mg of (I). Breaking strength was 80-100 N and disintegration time was 5 minutes.

L128 ANSWER 7 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 1999-620282 [53] WPIX

DNC C1999-181043

TI Pharmaceutical preparations containing hydrosoluble **ketoprofen** salts.

DC B03 B05

IN GIORGETTI, P L M

PA (ERRE-N) ERREKAPPA EUROTERAPICI SPA; (ERRE-N) ERREKAPPA EUROTERAPICI SAS

CYC 25

PI WO 9952528 A1 19991021 (199953)* EN 34p A61K031-40

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
W: CA CN JP KR US

EP 1024808 A1 20000809 (200039) EN A61K031-40
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE SI
CN 1263464 A 20000816 (200055) A61K031-40
KR 2001013712 A 20010226 (200154) A61K031-40
US 6291527 B1 20010918 (200157) A61K031-19
JP 2002510336 W 20020402 (200225) 34p C07D207-16
CH 692939 A5 20021231 (200305) A61K031-19

ADT WO 9952528 A1 WO 1999-IB626 19990409; EP 1024808 A1 EP 1999-910606
19990409, WO 1999-IB626 19990409; CN 1263464 A CN 1999-800474 19990409; KR
2001013712 A KR 1999-711727 19991211; US 6291527 B1 WO 1999-IB626
19990409, US 1999-445672 19991210; JP 2002510336 W JP 1999-551422
19990409, WO 1999-IB626 19990409; CH 692939 A5 CH 1998-843 19980411
FDT EP 1024808 A1 Based on WO 9952528; US 6291527 B1 Based on WO 9952528; JP
2002510336 W Based on WO 9952528

PRAI CH 1999-618 19990331; CH 1998-843 19980411

IC ICM A61K031-19; A61K031-40; C07D207-16

ICS A61K009-02; A61K009-06; A61K009-08; A61K009-10; A61K009-12;
A61K009-16; A61K009-20; A61K009-48; A61K031-192; A61K031-70;
A61K031-7008; A61P029-00; C07C051-41

ICA C07C059-84; C07H005-06

ICI C07C059:84

AB WO 9952528 A UPAB: 19991215

NOVELTY - Pharmaceutical preparations containing hydrosoluble
ketoprofen salts obtained by reaction of **ketoprofen** and
glucosamine and/or proline and/or hydroxyproline are new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for
hydrosoluble salts contained in the pharmaceutical preparations
characterized by the fact that they are obtained from **ketoprofen**
and amino acids, in 0.8-1.2 times the equimolar quantities.

ACTIVITY - Antiinflammatory; Analgesic. The results obtained for the
carrageenan edema test in the rat indicate that **ketoprofen**
glucosamine salt, administered orally at doses of 0.5, 1 and 2
mg/kg, possesses antiinflammatory activity. The anti-edematogenic effect
of the test compound is dose-dependent. **Ketoprofen**
glucosamine significantly inhibits the reaction process by 30%,
48% and 72% at oral doses of 0.5, 1 and 2 mg/kg, respectively.

USE - The preparations are useful for antiinflammatory and analgesic
treatment of joints and mucous membranes.

ADVANTAGE - The use of **ketoprofen** salts is advantageous
with regard to bioavailability, tolerability and compliance.
Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B05-A01B; B05-C07; B07-D03; B10-A07; B10-C04B;
B10-E04B; B14-C01; B14-C03

TECH UPTX: 19991215

TECHNOLOGY FOCUS - PHARMACEUTICALS - Preferred Method: The hydrosoluble
salts are obtained in water solution form and characterized by the fact
that the synthesis is carried out at neutral pH at 5-60degreesC and that
the concentration of salts obtained is at least 300 g l to part of -1.
Alternatively the hydrosoluble salts are in solid form and the synthesis
is carried out in at least one suitable organic solvent which, after
reaction, is eliminated at a high temperature and/or reduced pressure.

ABEX

ADMINISTRATION - Administration is oral (e.g. as tablets, capsules, or
granules), transdermal, intramuscular, topical or by injection. The
preparation may be in the form of a solution, irrigation solution,
mouthwash, suppository, vaginal bougies, gel, cream or foam. No actual
dosage is given.

EXAMPLE - An injectable preparation for intramuscular administration

comprised (quantity for 1 unit): **ketoprofen glucosamine** (170 mg) equivalent to **ketoprofen** acid (100 mg), benzyl alcohol (90 mg), sodium chloride (27 mg) and water for injectable preparations (up to 3 ml).

L128 ANSWER 8 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 1995-123244 [16] WPIX

DNC C1995-056213

TI Compsn. for improved relief of cold, cold-like and/or flu symptoms - contains aminoacid salt of propionic acid non-steroidal antiinflammatory agent with decongestant, expectorant, antihistamine and antitussive.

DC B05

IN MITRA, S

PA (PROC) PROCTER & GAMBLE CO

CYC 24

PI WO 9507103 A1 19950316 (199516)* EN 18p A61K045-06

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

W: AU BR CA CN JP PL RU

AU 9476040 A 19950327 (199528) A61K045-06

EP 719156 A1 19960703 (199631) EN A61K045-06

R: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

BR 9407414 A 19961112 (199651) A61K045-06

JP 09502201 W 19970304 (199719) 20p A61K031-045

CN 1130354 A 19960904 (199751) A61K045-06

ADT WO 9507103 A1 WO 1994-US9581 19940824; AU 9476040 A AU 1994-76040 19940824; EP 719156 A1 EP 1994-926020 19940824; WO 1994-US9581 19940824; BR 9407414 A BR 1994-7414 19940824; WO 1994-US9581 19940824; JP 09502201 W WO 1994-US9581 19940824; JP 1995-508695 19940824; CN 1130354 A CN 1994-193312 19940824

FDT AU 9476040 A Based on WO 9507103; EP 719156 A1 Based on WO 9507103; BR 9407414 A Based on WO 9507103; JP 09502201 W Based on WO 9507103

PRAI US 1993-116927 19930907

REP WO 9217171; WO 9217177

IC ICM A61K031-045; A61K045-06

ICS A61K031-085; A61K031-135; A61K031-19; A61K031-195; A61K031-205; A61K031-38; A61K031-40; A61K031-405; A61K031-415; A61K031-42; A61K031-44; A61K031-445; A61K031-485; A61K031-495; A61K031-50; A61K031-505; A61K031-52; A61K031-54; A61K031-55

AB WO 9507103 A UPAB: 19971222

A compsn. for alleviating cold, cold-like and/or flu symptoms comprises an aminoacid salt of a propionic acid non-steroidal anti-inflammatory agent together with at least one decongestant, one expectorant, one antihistamine and one antitussive.

The propionic acid deriv. is pref. **ibuprofen**, naproxen, benoxaprofen, flurbiprofen, **ketoprofen**, fenoprofen, fenbufen, indoprofen, piroprofen, carprofen, oxaprozin, pranoprofen, miroprofen, tioxaprofen, suprofen, alminoprofen, or tiaprofen (esp. **ibuprofen**, naproxen, flurbiprofen, or **ketoprofen**).

The aminoacid salt is pref. triethylamine, tripropylamine, 2-dimethylaminoethanol, 2-diethylaminoethanol, lysine, ornithine, arginine, histidine, caffeine, procain, N-ethylpiperidine, hydrabamine, choline, betaine, ethylenediamine, **glucosamine**, methylglucamine, theobromine, purine, piperazine or piperidine.

The decongestant is pref. pseudoephedrine, phenylpropanolamine, phenylephrine or ephedrine.

The antitussive is pref. dextromethorphan, chlrophedianol, carbetapentane, caramiphen, noscapine, diphenhydramine, codeine, hydrocodone, hydromorphone or fominoben.

The expectorant is pref. glyceryl guaiacolate, terpin hydrate, ammonium chloride, N-acetylcysteine, bromhexine or ambroxol.

USE - The compsn. is useful for the treatment of cough, cold, cold-like and/or flu symptoms.

Dosage is 5 to 50 mg of S(+)**ketoprofen** lysinate, 50 to 800

mg of S(+)-**ibuprofen** lysinate, or 50 to 800 mg of S(+)-naproxen lysinate.

Dwg.0/0

FS CPI

FA AB; DCN

MC CPI: B04-A04; B04-A06; B06-D09; B07-H; **B10-A07**; B10-A22;
B10-B01; B10-B02B; B10-B03B; B10-B04B; **B10-C04B**;
B10-C04C; B10-E04B; B14-C03; B14-K01B; B14-K01E

L128 ANSWER 9 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 1992-168661 [21] WPIX

DNC C1992-077552

TI New complexes of phenyl-alkanoic acid(s) - esp. **ibuprofen** of naproxen, with amino sugar(s).

DC B05

IN PARADIES, H H; HASKO, H

PA (MEDI-N) MEDICE CHEM-PHARM PUTTER GMBH; (MEDI-N) MEDICE CHEM PHARM FAB PUETTER

CYC 24

PI EP 486046 A2 19920520 (199221)* DE 12p C07C057-30

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DE 4137683 A 19920521 (199222) 10p C07H005-06 <--

AU 9187904 A 19920521 (199229) C07H005-06 <--

CA 2055681 A 19920516 (199231) C07H005-06 <--

HU 59692 T 19920629 (199231) C07H005-06 <--

BR 9104997 A 19920623 (199232) C07H005-06 <--

ZA 9109075 A 19920826 (199240) 27p C07H000-00 <--

CS 9103465 A2 19920617 (199250) C07H005-06 <--

CN 1061415 A 19920527 (199306) C07H005-06 <--

EP 486046 A3 19921209 (199344) C07C057-30

NZ 240616 A 19931026 (199345) C07H005-06 <--

AU 642309 B 19931014 (199348) C07H005-06 <--

JP 06184003 A 19940705 (199431) 9p A61K047-48

EP 486046 B1 19960501 (199622) DE 18p C07C057-30

R: AT BE CH DE DK FR GB IT LI LU NL SE

DE 59107759 G 19960605 (199628) C07C057-30

JP 2542765 B2 19961009 (199645) 8p A61K047-48

US 5604206 A 19970218 (199713) 8p A61K031-70

ADT EP 486046 A2 EP 1991-119523 19911115; DE 4137683 A DE 1991-4137683
19911115; AU 9187904 A AU 1991-87904 19911115; CA 2055681 A CA
1991-2055681 19911115; HU 59692 T HU 1991-3572 19911114; BR 9104997 A BR
1991-4997 19911118; ZA 9109075 A ZA 1991-9075 19911115; CS 9103465 A2 CS
1991-3465 19911115; CN 1061415 A CN 1991-110740 19911115; EP 486046 A3 EP
1991-119523 19911115; NZ 240616 A NZ 1991-240616 19911115; AU 642309 B AU
1991-87904 19911115; JP 06184003 A JP 1991-354100 19911115; EP 486046 B1
EP 1991-119523 19911115; DE 59107759 G DE 1991-507759 19911115, EP
1991-119523 19911115; JP 2542765 B2 JP 1991-354100 19911115; US 5604206 A
Cont of US 1991-792479 19911115, US 1994-328722 19940218

FDT AU 642309 B Previous Publ. AU 9187904; DE 59107759 G Based on EP 486046;
JP 2542765 B2 Previous Publ. JP 06184003

PRAI DE 1990-4036460 19901115

REP No-SR.Pub; 2.Jnl.Ref; DE 2103387; DE 3205077; DE 3639038; DE 3700172; EP
398288; 1.Jnl.Ref

IC ICM A61K031-70; A61K047-48; C07C057-30; C07H000-00

ICS A61K031-13; A61K031-205; C07C215-10; C07H005-04

ICA A61K031-19; C07H005-06

AB EP 486046 A UPAB: 19931213

Hydrogen-bonded 1:1 complexes (I) of S(+)-phenylalkanoic acids (II) with amino sugars (III) are new. (I) are formed by a proton switch interaction between the COOH gp. in (II) and the 3-OH gp. in (III): where R1-R3 are not defined. (II) must have a pKa of 3.5-3.9 w.r.t. the COOH gp., and (III) must have a pKa of 1.9-4.0 w.r.t. the 3-OH gp..

USE/ADVANTAGE - (I) are useful as prodrugs of (II), esp. S(+)-

ibuprofen (IIa) or S(+)-naproxen, which have analgesic, antiinflammatory, antipyretic and antimicrobial activity. On oral admin., (I) give higher blood levels of (II) in shorter times than (II) alone.

0/2

FS CPI

FA AB; GI; DCN

MC CPI: **B10-A07**; B10-C03; **B10-C04B**; **B10-C04C**;
B12-A01; **B12-D01**; B12-D07; B12-D08

ABEQ EP 486046 A UPAB: 19931213

Hydrogen-bonded 1:1 complexes (I) of S(+)-phenylalkanoic acids (II) with amino sugars (III) are new. (I) are formed by a proton switch interaction between the COOH gp. in (II) and the 3-OH gp. in (III): where R1-R3 are not defined. (II) must have a pKa of 3.5-3.9 w.r.t. the COOH gp., and (III) must have a pKa of 1.9-4.0 w.r.t. the 3-OH gp..

USE/ADVANTAGE - (I) are useful as prodrugs of (II), esp. S(+)-**ibuprofen** (IIa) or S(+)-naproxen, which have analgesic, antiinflammatory, antipyretic and antimicrobial activity. On oral admin., (I) give higher blood levels of (II) in shorter times than (II) alone.

ABEQ EP 486046 B UPAB: 19960604

Hydrogen-bridge-bound complexes having a stoichiometry of 1:1 comprising S(+)-phenyl alkane acids and amino sugars in which the complex bond is based on interactions of the carboxyl group of the S(+)-phenyl alkane acids and the hydroxyl group at the carbon atom (C3) of the amino sugars having a proton switch of the form (I) and (II); where R1-COOH denotes the S(+)-phenyl alkane acids and (III); denotes the amino sugars, the pKa values relating to the carboxyl group of the S(+)-phenyl alkane acids lying in the range of 3/5-3.9 and the pKa values relating to the hydroxyl group at the carbon atom (C3) of the amino sugars lying in the range of 1.9-4.0.

Dwg.1/2

ABEQ US 5604206 A UPAB: 19970326

Preparing a complex of an S(+)-phenyl alkanolic acid and amino sugar comprises:

(a) combining the S(+)-phenyl alkanolic acid with an aq. buffer soln. having a pH 5.5-7.5 at 20 deg. C;

(b) heating the combined acid and buffer soln. of step (a) to 40 deg. C with constant stirring until a clear transparent soln. is obtd. and all of the S(+)-phenyl alkanolic acid is dissolved;

(c) adjusting the pH of the soln. resulting from step (b) to 5.5-6.0 by the addn. of diluted phosphoric acid, then adding the amino sugar in an equimolar amt. relative to the S(+)-phenyl alkanolic acid to form a reaction mixt.; and

(d) after complex formation is complete, cooling the reaction mixt. to ppt. therefrom the complex in crystalline form, and recovering the pptd. complex from the reaction mixt.

Dwg.1/2

L128 ANSWER 10 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN **1979-44860B** [24] WPIX

TI Analgesic and antiinflammatory glucosamide deriv. - specifically 2(p-isobutylphenyl)-propionic acid-D-glucosamide.

DC B03

PA (HOKR) HOKURIKU PHARM CO LTD

CYC 1

PI JP 54055545 A 19790502 (197924)*

PRAI JP 1977-121533 19771012

IC A61K031-70; C07H015-18

AB JP 54055545 A UPAB: 19930901

A D-glucosamide deriv. of formula (I) is new. It shows analgesic and anti-inflammatory activity and is useful as a pharmaceutical.

(I) is prepd. by reacting 2-(p-isobutyl-phenyl)propionyl chloride with D-glucosamine. The reaction may be performed by combining a soln. of 2-(p-isobutylphenyl)propionyl chloride in an organic solvent

with an aq. soln. of D-**glucosamine** which is prep'd. by neutralising D-**glucosamine** hydrochloride with a strong base. Since D-**glucosamine** free base is unstable, the aq. soln. should be held fairly cooled. The strong base for the neutralisation of D-**glucosamine** hydrochloride may be NaOH or KOH.

Examples of the organic solvent to be used in the reaction include dioxane, chloroform and ether.

FS CPI
FA AB
MC CPI: B10-A07; B12-D01; B12-D07

L128 ANSWER 11 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 1972-55155T [35] WPIX

TI Compns of **glucosamine** hydrochloride and anti-rheumatic - agent - for treatment of arthrosis and arthritis, with reduced toxicit.

DC B03

PA (OPFE) OPFERMANN AND SOHN JGW; (OPFE-N) OPFERMANN J G W &

CYC 1

PI DE 2103387 A (197235)*

DE 2103387 B 19810730 (198132)

PRAI DE 1971-2103387 19710126

IC A61K027-14; A61K031-70; A61K045-06

AB DE 2103387 A UPAB: 19930831

Prepns. contain active components in a molar ratio of 1:10 to 10:1. The anti-rheumatic agents used are mono-, di- or oxyphenylbutazone, indometacin, pyrazolone and/or salicyclic acid. Pref. prepns. contain 0.1-0.5 g. **glucosamine** HCl, 0.05-0.25 g. anti-rheumatic agent and opt. sulphates and/or iodides of alkali- and/or alkaline earth metals as well as sulphates and/or iodohydrates of organic basis with anti-rheumatic activity.

FS CPI

FA AB

MC CPI: B06-D01; B07-D08; B10-A07; B10-C03; B12-D01; B12-D03; B12-D07; B12-D08; B12-D09

L128 ANSWER 12 OF 12 WPIX (C) 2003 THOMSON DERWENT

AN 1966-26657F [00] WPIX

TI Potentiation of neurotropic agents by **glucosamine**.

DC B00

PA (TECX) TECPAN SA

CYC 1

PI FR 48047 M (196800)*

PRAI FR 1965-27377 19650805

AB FR 48047 M UPAB: 19930831

- Use of **glucosamine** and salts thereof for potentiation of analgesics, sedatives, muscle relaxants, hypnotics, neuroplegic agents.

Preferred potentiator is **glucosamine** hydrochloride. Typical compounds potentiated are aspirin, paracetamol, phenylbutazone, anti-pyrine, amidopyrine, morphine and its derivatives, chlorpromazine, promethazine, barbiturates.

Aspirin was tested against phenylbenzoquinone in mice (see Proc. Soc. Exp. Biol. and Med 1965, 118 763; abid. 1957, 95 729) and the ED50 was 130 mg/kg. compared with 19 mg/kg when potentiated with 20% w/w of **glucosamine** hydrochloride.

(a) Tablets contain aspirin 250 mg. glucurono-lactone 100 mg; **glucosamine** HCl 150 mg. and excipient q.s. Dose 4-6 tabs. daily for treatment of rheumatism

(b) Tablets contain phenobarbitone 10 mg. **glucosamine** HCl 100 mg. Daily dose 1-4 tablets.

FS CPI

FA AB

MC CPI: B10-A07; B12-C07; B12-C08; B12-C09; B12-C10;

B12-D01; B12-D03; B12-D09; B12-E02

=> d his

(FILE 'HOME' ENTERED AT 10:34:45 ON 27 JAN 2003)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 10:34:56 ON 27 JAN 2003

L1 3 S 3416-24-8 OR 29031-19-4 OR 66-84-2
E .ALPHA.-GLUCOSAMINE/CN
L2 1 S E4
L3 1 S 6490-70-6
E .BETA.-GLUCOSAMINE/CN
L4 1 S E4
L5 1 S 14257-69-3
E N-ACETYL-D-GLUCOSAMINE/CN
L6 1 S E3
L7 297 S (7512-17-6 OR 3416-24-8 OR 6490-70-6 OR 14257-69-3)/CRN
L8 37 S L7 AND (7664-93-9/CRN OR CLH)
L9 8 S L8 AND 2/NC
L10 12 S L1-L6,L9
L11 1 S IBUPROFEN/CN
L12 1 S KETOPROFEN/CN
L13 18 S C13H18O2/MF AND 46.150.18/RID AND 1/NR AND BENZENEACETIC AND
L14 13 S L13 AND 2 METHYLPROPYL
L15 3 S L14 AND IBUPROFEN
L16 15 S L13 NOT L15
L17 12 S C16H14O3/MF AND 46.150.18/RID AND 2/NR AND BENZENEACETIC AND
L18 3 S L17 AND KETOPROFEN
L19 9 S L17 NOT L18
L20 6 S L11,L12,L15,L18
SEL RN
L21 426 S E1-E6/CRN
L22 2 S L21 AND L7

FILE 'HCAPLUS' ENTERED AT 10:44:09 ON 27 JAN 2003

L23 9874 S L10
L24 27519 S ?GLUCOSAMINE? OR ACETYLGLUCOSAMINE OR ACETYL (1W) GLUCOSAMINE
L25 29352 S L23,L24
L26 8313 S L20
L27 8906 S IBUPROFEN OR KETOPROFEN
L28 10023 S L26,L27
L29 4491 S NSAID
L30 11691 S (NONSTEROID? OR NON STEROID?) (L) ?INFLAM?
L31 49473 S ANALGES?
E ANALGESIC/CT
E E6+ALL
L32 27328 S E5
L33 54026 S E5+NT
E E22+ALL
L34 17760 S E5+NT
E ANTIINFLAM/CT
E E5+ALL
L35 19798 S E2
E E2+ALL
L36 24177 S E4,E5
L37 28056 S E3+NT
L38 36 S L25 AND L28
L39 329 S L25 AND L29-L37
L40 23 S L38 AND L39
L41 36 S L38,L40
E ANTIARTHRITIC/CT

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L42      4488 S E4+ALL
          E E5,E4+NT
          E ANTIHISTAMIN/CT
L43      1153 S E5-E7
          E E4+ALL
L44      6793 S E5,E4+NT
          E MUSCLE RELAXANT/CT
L45      5669 S E4-E10
          E E4+ALL
L46      8857 S E5,E6,E4+NT
          E DECONGESTANT/CT
L47      431 S E4,E5
          E E4+ALL
L48      431 S E4
          E BRONCHODIAL/CT
L49      5474 S E7-E9
          E E7+ALL
L50      9708 S E5,E4+NT
L51      66379 S ANTIARTHRIT? OR ANTIHISTAMIN? OR ANTI() (ARTHRIT? OR HISTAMIN?
L52      147 S L25 AND L42-L51
L53      120 S L52 AND L39
L54      13 S L52 AND L41
L55      13 S L40 AND L54
          SEL DN AN 3 10 11
L56      3 S E1-E9
L57      131 S L41,L52,L53 AND L23
L58      26 S L57 AND L26
L59      23 S L58 NOT L56
L60      15 S L59 NOT L55
          SEL DN AN 11
L61      1 S L60 AND E10-E12
L62      2 S L22
L63      6 S L56,L61,L62
          E RAFFA R/AU
L64      177 S E4-E9
          E COWAN A/AU
L65      236 S E3-E15,E17,E20,E21
          E TALLARIDA R/AU
L66      103 S E4-E6
L67      1 S L64-L66 AND L25
L68      6 S L63,L67 AND L23-L67
          SEL HIT RN

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FILE 'REGISTRY' ENTERED AT 11:00:56 ON 27 JAN 2003

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L69      11 S E1-E11
L70      10 S L69 NOT C16H25NO2
L71      1 S L69 NOT L70

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FILE 'REGISTRY' ENTERED AT 11:01:43 ON 27 JAN 2003

FILE 'HCAPLUS' ENTERED AT 11:02:03 ON 27 JAN 2003

FILE 'REGISTRY' ENTERED AT 11:03:00 ON 27 JAN 2003

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L72      10 S L10,L20 NOT L69

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FILE 'EMBASE' ENTERED AT 11:03:31 ON 27 JAN 2003

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L73      12569 S L25
L74      18148 S L28
L75      18174 S ?KETOPROFEN? OR ?IBUPROFEN?
L76      76 S L73 AND L74,L75
L77      39 S L76 AND GLUCOSAMINE ?/CT
          E GLUCOSAMINE/CT
          E E40+ALL

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L78 37 S (GLUCOSAMINE?(L)CB)/CT
L79 3 S L77 AND L78
E ANALGESIC/CT
E E6+ALL
L80 280444 S E3+NT
L81 291 S L80 AND L73
L82 18 S L78 AND L81
L83 15 S L82 NOT L79
SEL DN AN L83 10
L84 1 S E1 AND L83
L85 291 S L76,L81
L86 78 S L85 AND (COADMIN? OR COMEDIC? OR COPRESCRI? OR COTHERAP? OR C
L87 15 S L86 NOT AB/FA
L88 63 S L86 NOT L87
L89 54 S L88 AND PY<=2001
SEL DN AN 5 6 13 30 49
L90 5 S L89 AND E2-E8
L91 5 S L84,L90 AND L73-L90

FILE 'EMBASE' ENTERED AT 11:20:59 ON 27 JAN 2003

FILE 'WPIX' ENTERED AT 11:21:23 ON 27 JAN 2003

L92 1860 S L24
E GLUCOSAMINE/DCN
E E3+ALL
L93 397 S E2 OR 1615/DRN
L94 47 S E4
L95 2 S E6
E ACETYLGUCOSAMINE/DCN
E E4+ALL
L96 135 S E2
L97 773 S C07H005-06/IC,ICM,ICS
L98 2655 S L92-L97
L99 1931 S L24/BIX
L100 2712 S L98,L99
L101 1902 S (?KETOPROFEN? OR ?IBUPROFEN?)/BIX
E KETOPROFEN/DCN
E E3+ALL
L102 674 S E2
L103 1 S E4
L104 278 S E8
L105 8 S E10
E IBUPROFEN/DCN
E E3+ALL
L106 1621 S E2 OR 1987/DRN
L107 3 S E4
L108 478 S E8
L109 14 S E10
L110 4 S E14
L111 28 S E20
L112 22 S L100 AND L101-L111
L113 15 S L112 AND M782/M0,M1,M2,M3,M4,M5,M6
L114 1 S L112 AND (B14-S09 OR C14-S09 OR B12-C09 OR C12-C09)/MC
L115 1 S L112 AND P861/M0,M1,M2,M3,M4,M5,M6
L116 15 S L113-L115
L117 76 S (B14-C01 OR C14-C01 OR B12-D01 OR C12-D01)/MC AND L100
L118 75 S (P411 OR PR12)/M0,M1,M2,M3,M4,M5,M6 AND L100
L119 83 S L117,L118
L120 1 S L112-L119 AND (RAFFA R? OR COWAN A? OR TALLARIDA R?)/AU
L121 37 S L112-L119 AND (B10-A07 OR C10-A07)/MC
L122 15 S L112-L119 AND (B10-C04B OR C10-C04B OR B10-C04C OR C10-C04C)/
L123 6 S L121 AND L122
SEL DN AN 1 3 4 5

L124 4 S L123 AND E1-E8
L125 4 S L120,L124
L126 45 S L112-L116,L121-L122 NOT L123-L125
SEL DN AN 7 12 16 18 21 42 44 45
L127 8 S E9-E22
L128 12 S L125,L127 AND L92-L127

FILE 'WPIX' ENTERED AT 11:43:53 ON 27 JAN 2003